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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:20:30 ; Search time 88.4866 Seconds  
 (without alignments)

869.796 Million cell updates/sec

Title: US-09-816-653A-2

Perfect score: 1061  
 Sequence: 1 MSOPAGNOTSPGATEDSYG.....WAHLGVQVWQRRAECQPQVKI 199

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : A\_Geneseq\_16Dec04:  
 1: geneseqp1980s:  
 2: geneseqp1990s:  
 3: geneseqp2000s:  
 4: geneseqp2001s:  
 5: geneseqp2002s:  
 6: geneseqp2003as:  
 7: geneseqp2003bs:  
 8: geneseqp2004s:  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	1059	99.8	199	6	ABB99462	Amino aci	Abb99462 Amino aci
2	1048	98.8	487	5	AAO17374	Human ret	Aao17374 Human ret
3	1048	98.8	666	6	ABU82087	Novel hum	Abu82087 Novel hum
4	1048	98.8	667	4	AAU04557	Human str	Aau04557 Human str
5	1048	98.8	667	4	AAB88572	Human hyd	Aab88572 Human hyd
6	1048	98.8	667	5	AAU83631	Human PRO	Aau83631 Human PRO
7	1048	98.8	667	5	AAU78575	Human Str	Aau78575 Human Str
8	1048	98.8	667	5	AAO19413	Human mol	Aao19413 Human mol
9	1048	98.8	667	6	ADA54816	Human PRO	Ada54816 Human PRO
10	1048	98.8	667	6	ABU80778	Human PRO	Abu80778 Human PRO
11	1048	98.8	667	6	ABo33744	Novel hum	Abo33744 Novel hum
12	1048	98.8	667	6	ABJ72267	Human PRO	Abj72267 Human PRO
13	1048	98.8	667	6	ABJ72395	Human PRO	Abj72395 Human PRO
14	1048	98.8	667	6	ABo34290	Human sec	Abo34290 Human sec
15	1048	98.8	667	7	ABJ72097	Human mem	Abj72097 Human mem
16	1048	98.8	667	7	ADB83570	Novel hum	Adb83570 Novel hum
17	1048	98.8	667	7	ADB80676	Novel hum	Adb80676 Novel hum
18	1048	98.8	667	7	ADB73217	Novel hum	Adb73217 Novel hum
19	1048	98.8	667	7	ADB78299	Novel hum	Adb78299 Novel hum
20	1048	98.8	667	7	ADB84947	Human PRO	Adb84947 Human PRO
21	1048	98.8	667	7	ADB78053	Novel hum	Adb78053 Novel hum
22	1048	98.8	667	7	ADB87119	Human PRO	Adb87119 Human PRO
23	1048	98.8	667	7	ADB84701	Human PRO	Adb84701 Human PRO
24	1048	98.8	667	7	ADB83816	Novel hum	Adb83816 Novel hum
25	1048	98.8	667	7	ADB72971	Novel hum	Adb72971 Novel hum

#### ALIGNMENTS

RESULT 1  
 ABB99462  
 ID ABB99462 standard; protein; 199 AA.

XX AC ABB99462;  
 XX DT 12-FEB-2003 (first entry)  
 XX DE Amino acid sequence of the amino-terminal of human STRA6.  
 XX KW Human; STRA6; retinoic acid; hSTRA6; Wnt-1; cellular transformation; tumour; colon cancer; breast cancer; gene therapy.  
 XX OS Homo sapiens.  
 XX FH Key Location/Qualifiers  
 FT Misc-difference 31  
 FT /note= "unknown residue encoded by GNN"  
 XX PN WO200277027-A1.  
 XX PD 03-OCT-2002.  
 XX PF 23-MAR-2001; 2001WO-US009561.  
 XX PR 23-MAR-2000; 2000US-0191532P.  
 XX PA (CURA-) CURAGEN CORP.  
 (GETH ) GENENTECH INC.  
 XX PI Rastelli LK, Pennica D;  
 XX DR WPI; 2003-058366/05.  
 N-PSDB; ABV76852.  
 XX PT New human STRA6 (stimulated by retinoic acid) proteins and nucleic acids encoding the proteins, useful for treating cancers (e.g. colon and breast cancer, or melanoma), or in gene therapy.  
 XX PS Claim 4; Page 9-10; 113pp; English.

The present sequence represents the amino-terminal portion of a human protein, designated STRA6 (stimulated by retinoic acid). hSTRA6 (human STRA6) is modulated by Wnt-1 and plays a role in cellular transformation. The hSTRA6 nucleic acids and proteins are useful for treating tumours (e.g. colon and breast cancer, or melanoma), in gene therapy, in diagnostic applications where the presence or amount of the nucleic acid or protein is to be assessed, and in the generation of antibodies that

CC bind immunospecifically to these sequences for therapeutic and diagnostic  
 CC applications. hSRA6 nucleic acid fragments may be used as hybridization  
 CC probes to identify hSRA6-encoding nucleic acids, or as PCR primers for  
 CC amplification and/or mutation of hSRA6 molecules

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

XX PD 04-APR-2002.

XX PF 20-AUG-2001; 2001WO-CN001252.

XX PR 23-AUG-2000; 2000CN-00119715.

XX PA (SHAN-) SHANGHAI BIOWINDOW GENE DEV INC.

XX PI Mao Y, Xie Y;

XX XX WPI; 2002-330093/36.

DR N-PSDB; AAL45968.

XX PT Human retinoic acid responsive protein 53-57 and encoding polymucleotide, used in diagnosis and treatment of diseases e.g., arrhythmia, asthma, diabetes and cancer.

XX PT Claim 1; Page 32-33; 37pp; Chinese.

XX CC The present invention provides the protein and coding sequences of human retinoic acid responsive protein 53-57. The sequences can be used in the treatment of arrhythmia, bronchial asthma, peptic ulcer, diabetes, cancer and embryonic development disorders. The present sequence is the protein of the invention

XX SQ Sequence 487 AA;

Query Match 98.8%; Score 1048; DB 5; Length 487;  
 Best Local Similarity 99.0%; Pred. No. 8.8e-106;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

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Query Match 98.8%; Score 1048; DB 5; Length 487;  
 Best Local Similarity 99.0%; Pred. No. 8.8e-106;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

XX PD 04-APR-2002.

XX PF 20-AUG-2001; 2001WO-CN001252.

XX PR 23-AUG-2000; 2000CN-00119715.

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XX XX WPI; 2002-330093/36.

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Query Match 98.8%; Score 1048; DB 5; Length 487;  
 Best Local Similarity 99.0%; Pred. No. 8.8e-106;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

XX PD 04-APR-2002.

XX PF 20-AUG-2001; 2001WO-CN001252.

XX PR 23-AUG-2000; 2000CN-00119715.

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XX PI Mao Y, Xie Y;

XX XX WPI; 2002-330093/36.

DR N-PSDB; AAL45968.

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XX SQ Sequence 487 AA;

Query Match 98.8%; Score 1048; DB 5; Length 487;  
 Best Local Similarity 99.0%; Pred. No. 8.8e-106;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

XX PD 04-APR-2002.

XX PF 20-AUG-2001; 2001WO-CN001252.

XX PR 23-AUG-2000; 2000CN-00119715.

XX PA (SHAN-) SHANGHAI BIOWINDOW GENE DEV INC.

XX PI Mao Y, Xie Y;

XX XX WPI; 2002-330093/36.

DR N-PSDB; AAL45968.

XX PT Human retinoic acid responsive protein 53-57 and encoding polymucleotide, used in diagnosis and treatment of diseases e.g., arrhythmia, asthma, diabetes and cancer.

XX PT Claim 1; Page 32-33; 37pp; Chinese.

XX CC The present invention provides the protein and coding sequences of human retinoic acid responsive protein 53-57. The sequences can be used in the treatment of arrhythmia, bronchial asthma, peptic ulcer, diabetes, cancer and embryonic development disorders. The present sequence is the protein of the invention

XX SQ Sequence 487 AA;

Query Match 98.8%; Score 1048; DB 5; Length 487;  
 Best Local Similarity 99.0%; Pred. No. 8.8e-106;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

XX SQ Sequence 199 AA;

Query Match 99.8%; Score 1059; DB 6; Length 199;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-107; Mismatches 0; Indels 0; Gaps 0;

Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Query AAO17374 ID AAO17374 Standard; protein; 487 AA.

XX AC AAO17374;

XX DT 08-JUL-2002 (first entry)

XX DE Human retinoic acid responsive protein 53-57.

XX DE Human retinoic acid responsive protein 53-57.

XX KW bronchial asthma; peptic ulcer; diabetes; cancer; cytostatic; antiulcer;

XX KW antiasthmatic; antidiabetic; endocrine; cardiant;

XX KW embryonic development disorder; gene therapy.

XX Homo sapiens.

XX PN WO200226808-A1.

XX PD 04-APR-2002.

XX PF 20-AUG-2001; 2001WO-CN001252.

XX PR 23-AUG-2000; 2000CN-00119715.

XX PA (SHAN-) SHANGHAI BIOWINDOW GENE DEV INC.

XX PI Mao Y, Xie Y;

XX XX WPI; 2002-330093/36.

DR N-PSDB; AAL45968.

XX PT Human retinoic acid responsive protein 53-57 and encoding polymucleotide, used in diagnosis and treatment of diseases e.g., arrhythmia, asthma, diabetes and cancer.

XX PT Claim 1; Page 32-33; 37pp; Chinese.</p

CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,  
 CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast  
 CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids  
 CC have applications in molecular biology, including use as hybridisation  
 CC probes, and in chromosome and gene mapping. This is the amino acid  
 CC sequence of a novel human secreted and transmembrane PRO polypeptide  
 XX

SQ Sequence 666 AA;

Query Match 98.8%; Score 1048; DB 6; Length 666;  
 Best Local Similarity 99.0%; Freq. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDDYSYGSWYIDEPQGGXELQPEGEVPSCHTSPPGLYHACLASLSIL 61

Db 3 SQPAGNOTSPGATEDDYSYGSWYIDEPQGGEELQPEGEVPSCHTSPPGLYHACLASLSIL 62

Qy 62 VLLLAMLVRRRQLWPDCYRGRPGLPSPVDFLAGDRPRAVPAAFMVLLSSICLLPDED 121

Db 63 VLLLAMLVRRRQLWPDCYRGRPGLPSPVDFLAGDRPRAVPAAFMVLLSSICLLPDED 122

Qy 122 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLGSTLSWA 181

Db 123 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLGSTLSWA 182

Qy 182 HLGVQQWQRAECFQVPKI 199

Db 183 HLGVQQWQRAECFQVPKI 200

#### RESULT 4 AAU04557

ID AAU04557 standard; protein; 667 AA.

XX AAU04557;

XX DT 26-SEP-2001 (first entry)

XX Human Stra6 homologue, PRO10282.

XX Human; Stra6; PRO10282; 15q23; tumour; breast cancer; head tumour;  
 KW leukaemia; lymphoid malignancy; inflammatory disorder;  
 KW immunogenic disorder; antigen; antibody.

XX OS Homo sapiens.

XX Key Location/Qualifiers

PT Modified-site 8. .12 /note= "Asn is N-glycosylated"

FT Region 50. .56 /label= N\_myristoylation\_site

FT Domain 54. .69 /label= Transmembrane\_domain

FT Region 89. .97 /note= "Region deleted in Stra6 variant PRO19578"

FT Domain 102. .119 /label= Transmembrane\_domain

FT Region 132. .140 /note= "ATP/GTP-binding site motif A (P-loop)"

FT Domain 148. .166 /label= Transmembrane\_domain

FT Region 176. .182 /label= N\_myristoylation\_site

FT Domain 207. .222 /label= Transmembrane\_domain

FT Region 241. .247 /label= N\_myristoylation\_site

FT Domain 301. .320 /label= Transmembrane\_domain

FT Region 317. .323 /label= N\_myristoylation\_site

FT Region 341. .347 /label= N\_myristoylation\_site

FT Domain 364. .380 /label= Transmembrane\_domain  
 FT Region 364. .375 /note= "Prokaryotic membrane lipoprotein attachment site"  
 FT Domain 431. .451 /label= Transmembrane\_domain  
 FT Domain 474. .489 /label= Transmembrane\_domain  
 FT Region 525. .531 /label= N\_myristoylation\_site  
 FT Domain 560. .535 /label= Transmembrane\_domain  
 FT Region 627. .633 /label= N\_myristoylation\_site  
 FT Region 631. .637 /label= N\_myristoylation\_site  
 FT Region 640. .646 /label= N\_myristoylation\_site  
 FT Region 661. .667 /label= N\_myristoylation\_site  
 PN WO2001151635-A2.  
 XX PD 19-JUL-2001.  
 XX PP 11-JAN-2001; 2001WO-US000847.  
 XX PR 13-JAN-2000; 2000US-0175849P.  
 PR 14-APR-2000; 2000US-0197089P.  
 PR 29-AUG-2000; 2000US-0228914P.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Pennica D, Smith V, Wood WI;  
 XX DR 2001-442146/47.  
 DR N-PSDBB; AAS08630.  
 XX PT Human nucleic acid encoding a PRO10282 or PRO19578 polypeptide (the PRO  
 PT polypeptides are referred to as Stra6 polypeptides), useful in molecular  
 PT biology including use as hybridization probes, and in chromosome and  
 PT gene mapping.  
 XX PA Claim 24; Fig 2; 159pp; English.  
 XX PI  
 XX DR  
 XX PT  
 PT DR  
 XX PT  
 PT DR  
 XX PA  
 XX The sequence is human PRO10282, a homologue of murine Stra6, a retinoic  
 CC acid responsive protein thought to play an important role in early  
 CC dorsoventral limb patterning during development and later in the control  
 CC of endochondral ossification. The gene for the Stra6 homologue is located  
 CC on chromosome 15q23. The Stra6 polypeptides, agonists or  
 CC anti-Stra6 antibodies are useful for preparation of a medicament useful  
 CC in the treatment of a condition which is responsive to the Stra6  
 CC polypeptides, antagonists or anti-Stra6 antibodies. The Stra6  
 CC polypeptides may also be employed as molecular weight markers for protein  
 CC electrophoresis. The Stra6 nucleic acids have applications in molecular  
 CC biology, including use as hybridisation probes, and in chromosome and  
 CC gene mapping. The antibodies and other anti-tumour compounds may be used  
 CC to treat various conditions, including those characterised by  
 CC overexpression and/or activation of amplified genes. Exemplary conditions  
 CC or disorders include benign or malignant tumours (e.g., renal, liver,  
 CC kidney, bladder, breast, gastric, ovarian, colorectal, prostate,  
 CC pancreatic, lung, vulval, thyroid, hepatic carcinomas, sarcomas,  
 CC glioblastomas, and various head and neck tumours, leukaemias and lymphoid  
 CC malignancies), neuronal, glial, astrocytal, hypothalamic and other  
 CC glandular, macrophagal, epithelial, stromal and blastocoelic disorders,  
 CC inflammatory, angiogenic and immunogenic disorders  
 XX SQ Sequence 667 AA;  
 Query Match 98.8%; Score 1048; DB 4; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;



PR 23-AUG-2000; 2000WO-US023522.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 10-NOV-2000; 2000WO-US030873.  
 PR 28-NOV-2000; 2000US-0253646P.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 20-DEC-2000; 2000US-00747259.  
 PR 20-DEC-2000; 2000WO-US034956.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 01-MAR-2001; 2001WO-US006666.  
 PR 22-MAR-2001; 2001US-00816744.  
 PR 10-MAY-2001; 2001US-00854208.  
 PR 10-MAY-2001; 2001US-00854280.  
 PR 25-MAY-2001; 2001WO-US017092.

XX (GETH ) GENENTECH INC.  
 XX PA  
 PI Baker KP, Desnoyers L, Gerritsen ME, Godowski PJ, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
 XX DR WPI; 2002-172001/22.  
 XX DR N-PSDB; ABK33575.

PT One hundred and twenty two nucleic acids encoding PRO polypeptides,  
 PT useful for treating a PRO related disorder and for diagnosing tumors such  
 PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor  
 PT or liver tumor.

XX PS Claim 11; Fig 80; 359pp; English.

XX The invention relates to one hundred and twenty two nucleic acids  
 CC encoding PRO polypeptides. The sequences of the 122 PRO poly nucleotides  
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,  
 CC agonists and antagonists are useful for treating a PRO related disorder.  
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung  
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
 CC liver tumour. The PRO polypeptides are useful for stimulating the  
 CC proliferation of, or gene expression, in pericyte cells, for stimulating  
 CC the proliferation or differentiation of chondrocyte cells, for  
 CC stimulating the release of tumour necrosis factor-alpha from human blood,  
 CC for stimulating or inhibiting the proliferation of normal human dermal  
 CC fibroblast cells. The PRO polypeptide may also be used as molecular  
 CC weight markers and for tissue typing. The PRO nucleic acids have  
 CC applications in molecular biology, including use as hybridisation probes,  
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO  
 CC protein sequences of the invention

XX SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 5; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNQTSPGATEDYSYGSWYDEPGGGXELQPEGEVPSCHTSIPPGLYHACLASLSQL 61  
 Db 3 SQPAGNQTSPGATEDYSYGSWYDEPGGGXELQPEGEVPSCHTSIPPGLYHACLASLSQL 62

Qy 62 VLLLLAMLVRRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLIPDED 121  
 Db 63 VLLLLAMLVRRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAAVFVLLSSCLLIPDED 122

XX PN WO200218608-A2.  
 XX PD 07-MAR-2002.  
 XX PF 10-JUL-2001; 2001WO-US021635.

Qy 182 HLGIVQVWQRAECPOVPKI 199  
 Db 183 HLGIVQVWQRAECPOVPKI 200

RESULT 7  
 AAU78575 standard; protein; 667 AA.  
 ID AAU78575  
 XX PA (GETH ) GENENTECH INC.  
 XX PR 29-AUG-2000; 2000US-0228914P.  
 PR 11-JAN-2001; 2001US-00759056.  
 PR 10-JUL-2001; 2001US-00901812.  
 PR Tice D, Pennica D, Polakis P, Szeto W;

XX WPI; 2002-292202/33.  
 DR N-PSDB; ABKA7278.  
 XX Selectively enhancing the expression of a protein in a tumor cell  
 characterized by aberrant Wnt signaling, useful for enhancing the  
 efficacy of treatment of cancers, comprises treating the tumor cell with  
 a retinoid.

XX Example 1; Fig 2; 141pp; English.

XX This invention relates to a novel method for selective enhancement of the  
 expression of a protein in a tumour cell characterised by aberrant Wnt  
 signalling by treating the tumour cell with a retinoid. The method is  
 useful for enhancing the efficacy of treatment of cancers characterised  
 by aberrant Wnt signalling, and for identifying tumour antigens the  
 expression of which is selectively enhanced by retinoid treatment. The  
 method is also useful in the early detection of tumours for early  
 intervention. The tumour antigens are useful as targets for cancer  
 therapy, since selective enhancement of their expression by retinoid  
 treatment relative to normal cells improves the efficacy and therapeutic  
 index of cancer therapeutics directed against these antigens. Antibodies  
 binding to the tumour antigens may be administered for the treatment of  
 various disorders or conditions, including those characterised by  
 overexpression and/or activation of the tumour antigens, where such  
 conditions or disorders include benign or malignant tumours; leukaemias  
 and lymphoid malignancies; neuronal, glial, astrocytal, hypothalamic and  
 other glandular, macrophagal, epithelial, stromal and blastocoelic  
 disorders. The present sequence represents the human stra6 protein  
 (PRO10282) which is selectively upregulated by retinoid using the method  
 of the invention. The gene encoding the human stra6 protein is located on  
 human chromosome 15q23.

XX Sequence 667 AA;  
 SQ Query Match 98.8%; Score 1048; DB 5; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 2 SQPAGNQTSQGATEDYSYGSWYDEPOGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
 3 SQPAGNQTSQGATEDYSYGSWYDEPOGGEEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Db 62 VLLLIAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 121  
 63 VLLLIAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 122

Db 122 ALPFITLNASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
 123 ALPFITLNASAPSQDGKTEAPRGAWKILGLFYAAALYYPLAACATAGHTAAHLLGSTLSWA 182

Db 182 HLGVQVWQRAECQPQPKI 199  
 183 HLGVQVWQRAECQPQPKI 200

RESULT 8  
 AAO19413 ID AAO19413 standard; protein; 667 AA.  
 XX AC AAO19413;  
 DT 10-DEC-2002 (first entry)  
 XX DE Human molecule for disease detection and treatment protein #16.

KW Human; molecule for disease detection and treatment; MDDT; Gene therapy;  
 KW cytosolic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic;  
 KW antiinflammatory; antiasthmatic; cerebroprotective; nootropic;  
 KW neuroprotective; antiparkinsonian; cardiotonic; antiangiinal.  
 XX OS Homo sapiens.

XX RESULT 9  
 ADA54816 ID ADA54816 standard; protein; 667 AA.  
 XX AC ADA54816;  
 DT 20-NOV-2003 (first entry)

PN WO200270709-A2.  
 XX 12-SEP-2002.  
 PD 08-FEB-2002; 2002WO-US003709.  
 XX 09-FEB-2001; 2001US-0268117P.  
 PR 15-FEB-2001; 2001US-0269618P.  
 PR 23-FEB-2001; 2001US-027118P.  
 PR 07-MAR-2001; 2001US-0274486P.  
 PR 09-MAR-2001; 2001US-0274436P.  
 PR 28-NOV-2001; 2001US-0334229P.  
 PR 01-FEB-2002; 2002US-0353284P.  
 PA (INCYT GENOMICS INC.  
 XX Lal PG, Baughn MR, Yao MG, Walia NK, Elliot VS, Xu Y;  
 PI Honchell CD, Yue H, Ding L, Gietzen KJ, Ison CH, Lu DAM;  
 PI Hafalia AJA, Ghandi AR, Thangavelu K, Sanjanwala MM, Tang YT;  
 PI Ramkumar J, Griffin JA, Swarnaker A, Azimzai Y, Sapperstein SK;  
 PI Burford N, Lee EA, Lu Y, Tran UK, Marquis JP;  
 XX WPI; 2002-713453/77.  
 DR N-PSDB; AAI49942.  
 XX New human molecules for disease detection and treatment (MDDT), useful  
 PT for diagnosing, treating and preventing diseases or conditions associated  
 PT with the aberrant MDDT expression, e.g. cancer, AIDS, asthma, diabetes,  
 PT hepatitis.  
 XX Claim 1; Page 148-150; 177pp; English.  
 PS CC The present invention relates to human proteins and coding sequences of  
 CC molecules for disease detection and treatment MDDT. The sequences can be  
 CC used in the treatment of diseases associated with the decreased  
 CC expression or overexpression of MDDT, such as cell proliferative (cancer,  
 CC atherosclerosis, hepatitis), autoimmune/inflammatory (e.g. AIDS,  
 CC allergies, Addison's disease, asthma), developmental (dwarfism, renal  
 CC tubular acidosis), neurological (e.g. stroke, Parkinson's disease,  
 CC epilepsy) and cardiovascular (congestive heart failure, myocardial  
 CC infarction, angina pectoris) disorders. The present sequence is a protein  
 CC of the invention  
 XX Sequence 667 AA;  
 SQ Query Match 98.8%; Score 1048; DB 5; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Db 2 SQPAGNQTSQGATEDYSYGSWYDEPOGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
 3 SQPAGNQTSQGATEDYSYGSWYDEPOGGEEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62  
 QY 62 VLLLIAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 121  
 Db 63 VLLLIAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 122  
 QY 122 ALPFITLNASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFITLNASAPSQDGKTEAPRGAWKILGLFYAAALYYPLAACATAGHTAAHLLGSTLSWA 182  
 QY 182 HLGVQVWQRAECQPQPKI 199  
 Db 183 HLGVQVWQRAECQPQPKI 200  
 RESULT 9  
 AAO19413 ID AAO19413 standard; protein; 667 AA.  
 XX AC AAO19413;  
 DT 10-DEC-2002 (first entry)  
 XX DE Human molecule for disease detection and treatment protein #16.

KW Human; molecule for disease detection and treatment; MDDT; Gene therapy;  
 KW cytosolic; antiarteriosclerotic; hepatotropic; anti-HIV; antiallergic;  
 KW antiinflammatory; antiasthmatic; cerebroprotective; nootropic;  
 KW neuroprotective; antiparkinsonian; cardiotonic; antiangiinal.  
 XX OS Homo sapiens.

XX Human protein, SEQ ID 2384.  
 XX Cytostatic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;  
 KW Gene Therapy; human; Secretory protein; membrane proteins; cancer;  
 KW inflammatory disease; osteoporosis; neurological disease.  
 XX Homo sapiens.  
 XX EP1293569-A2.  
 XX 19-MAR-2003.  
 PD 21-MAR-2002; 2002EP-00006586.  
 PR 14-SEP-2001; 2001JP-00328381.  
 PR 24-JAN-2002; 2002US-0350435P.  
 XX (HELI-) HELIX RES INST.  
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.  
 XX PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;  
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;  
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;  
 XX WPI; 2003-395539/38.  
 DR N-PSDB; ADA53177.  
 XX PT New polynucleotides encoding full-length polypeptides, e.g. secretory  
 PT and/or membrane proteins, useful for developing medicines for diseases in  
 PT which the gene is involved, or as target molecules for gene therapy.  
 XX PS Claim 14; SEQ ID NO 2384; 205pp; English.  
 CC The present invention relates to novel human secretory or membrane  
 CC proteins (ADA54072-ADA55710) and their coding sequences (ADA52433-  
 CC ADA54071). The coding sequences are useful in the gene therapy of  
 CC diseases caused by abnormalities of the proteins, e.g. cancer,  
 CC inflammatory diseases, osteoporosis or neurological disease.  
 XX SQ Sequence 667 AA;  
 Query Match 98.8%; Score 1048; DB 6; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 2 SQPAGNOTSPGATEDYSGSWYDEPOQGXELQPEGEVPSCTSIPPGLYHACLASLSIL 61  
 3 SQPAGNOTSPGATEDYSGSWYDEPOQGEELQPEGEVPSCTSIPPGLYHACLASLSIL 62  
 DB 62 VLLLAMLVRRRQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLIPDED 121  
 63 VLLLAMLVRRRQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLIPDED 122  
 QY 122 ALPFPLTLASAPSDQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
 DB 123 ALPFPLTLASAPSDQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182  
 QY 182 HLGVQWQRAECQPVPKI 199  
 DB 183 HLGVQWQRAECQPVPKI 200  
 RESULT 10  
 ABU80778 ID ABU80778 standard; protein; 667 AA.  
 XX AC ABU80778;  
 XX DT 23-JUN-2003 (first entry)  
 XX DE Human PRO polypeptide #40.  
 XX OS Homo sapiens.  
 XX PN US2003036635-A1.  
 XX PD 20-FEB-2003.  
 XX PF 28-AUG-2002; 2002US-00230163.  
 XX PR 25-JUN-2000; 2000US-0220638P.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-APR-2002; 2002US-00119480.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker KP, Desnoyers L, Gerritsen ME, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Smith V, Wattanabe CK, Wood WI;  
 XX WPI; 2003-342045/32.  
 DR N-PSDB; ACA66880.  
 XX PT One hundred and twenty two nucleic acids encoding PRO polypeptides,  
 PT useful for the manufacture of a medicament for diagnosing or treating  
 PT tumor.  
 XX PS Claim 11; Fig 80; 314pp; English.  
 XX The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
 CC polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for preparing a medicament  
 CC useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are  
 CC useful in diagnostic assays for PRO, by detecting its expression in  
 CC specific cells, tissues or serum, and for affinity purification of PRO  
 CC from recombinant cell culture or natural sources. ABU80739-ABU80860  
 CC represent the human PRO polypeptides of the invention. Note: The sequence  
 CC data for this patent was obtained in electronic format directly from the  
 CC USPTO web site at seqdata.uspto.gov/psipSDIDEntry.html  
 XX SQ Sequence 667 AA;  
 Query Match 98.8%; Score 1048; DB 6; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 2 SQPAGNOTSPGATEDYSGSWYDEPOQGXELQPEGEVPSCTSIPPGLYHACLASLSIL 61  
 3 SQPAGNOTSPGATEDYSGSWYDEPOQGEELQPEGEVPSCTSIPPGLYHACLASLSIL 62  
 DB 62 VLLLAMLVRRRQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLIPDED 121  
 63 VLLLAMLVRRRQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVFMVLLSSCLLIPDED 122  
 QY 122 ALPFPLTLASAPSDQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
 DB 123 ALPFPLTLASAPSDQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182  
 QY 182 HLGVQWQRAECQPVPKI 199  
 DB 183 HLGVQWQRAECQPVPKI 200  
 RESULT 11  
 ABU33744 ID ABU33744 standard; protein; 667 AA.  
 XX AC ABU33744;  
 XX DT 23-SEP-2003 (first entry)  
 XX AC ABU33744;  
 XX DT 17-SEP-2003 (first entry)

DE	Novel human secreted and transmembrane protein PRO10282.	Qy	62 VLLILAMLVRRLQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVMVLSSCLLPPDED 1.21
XX		Db	63 VLLILAMLVRRLQLWPDCVRGPGLPSPVDFLAGDRPRAVPAAVMVLSSCLLPPDED 1.22
KW	Human; secreted and transmembrane protein; PRO; cytosstatic;		
KW	antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha;		
KW	chondrocyte stimulator; pericyte stimulator; fibroblast modulator;		
KW	pharmaceutical; diagnostic; biosensor; tumour; lung tumour;		
KW	colon tumour; breast tumour; prostate tumour; rectal tumour;		
KW	liver tumour; bone disorder; cartilage disorder; sports injury;		
KW	arthritis; wound.		
XX	Homo sapiens.		
OS			
XX	US2003045687-A1.		
PN			
XX	PD 06-MAR-2003.		RESULT 12
XX	PF 12-AUG-2002; 2002US-00218631.		ABJ72267
XX	PR 01-JUN-2001; 2001WO-US017800.		ID ABJ72267 standard; protein; 667 AA.
PR 29-JUN-2001; 2001WO-US021066.			XX
PR 09-APR-2002; 2002US-00119480.			AC ABJ72267;
XX	(GETH ) GENENTECH INC.		XX
XX	Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ,		DT 06-NOV-2003 (first entry)
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;		XX
XX	WPI: 2003-512315/48.		DE Human PRO10282 protein.
PA	DR N-PSDB; ACD68632.		XX
XX	New genes, and its encoded secreted and transmembrane polypeptides,		PRO; proliferation; pericyte cell; TNF-alpha; blood; chondrocyte;
PT	PT useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte or		differentiation; dermal fibroblast; tumour; gene therapy; cytostatic.
PT	PT pericyte proliferation, especially for treating lung tumors, arthritis or		XX
PT	PT wounds in a mammal.		OS Homo sapiens.
XX	DR		XX
XX	US2003050448-A1.		PN
XX	XX 13-MAR-2003.		XX
XX	PD		XX
XX	PF 28-AUG-2002; 2002US-00230414.		XX
XX	PR 01-JUN-2001; 2001WO-US017800.		XX
PR 29-JUN-2001; 2001WO-US021066.			PR 09-APR-2002; 2002US-00119480.
XX	PR (GETH ) GENENTECH INC.		XX
XX	Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;		XX
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;		PI
XX	WPI; 2003-521818/49.		XX
XX	N-PSDB; ABT44265.		DR 2003-521818/49.
XX	New nucleic acid encoding for a PRO protein, useful for the manufacture		DR ABT44265.
PT	of a medicament for diagnosing or treating tumors or for measuring or		XX
PT	detecting expression of an associated gene.		PR 0119480.
XX	Claim 11; Fig 80; 315pp; English.		XX
XX	The invention describes an isolated nucleic acid molecule comprising a		XX
CC	sequence with at least 80% identity to: (a) a nucleotide encoding any of		XX
CC	122 PRO (secreted and transmembrane) polypeptides whose sequences are		XX
CC	fully defined in the specification; or (b) any of 122 nucleotide		XX
CC	sequences having e.g. 4834, 2504 or 1759 bp fully defined in the		XX
CC	specification; or the full length coding sequence of any these 122		XX
CC	nucleotide sequences. The PRO polypeptides or polynucleotides are useful		XX
CC	as pharmaceuticals, diagnostics, biosensors or bioreactors. These are		XX
CC	particularly useful for detecting tumours (e.g. lung tumour, colon		XX
CC	tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour)		XX
CC	in a mammal, for stimulating the release of TNF-alpha from human blood,		XX
CC	for stimulating proliferation or differentiation of chondrocyte		XX
CC	cells, for stimulating proliferation of pericyte cells, or for modulating		XX
CC	normal human dermal fibroblast proliferation. The PRO nucleic acid or		XX
CC	polypeptide is also useful for treating tumours or various bone and/or		XX
CC	cartilage disorders (e.g. sports injuries or arthritis), or wounds. The		CC
CC	PRO polypeptides are useful in drug screening, particularly as targets		CC
CC	for therapeutic intervention in these diseases, and in the diagnostic		CC
CC	determination of the presence of these diseases. The PRO polypeptides are		CC
CC	also useful as molecular weight markers, or for chromosome		CC
CC	identification. The PRO genes are useful as hybridisation probes, or for		CC
CC	screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may		CC
CC	also be used in gene therapy, particularly for replacing a defective		CC
CC	gene. This is the amino acid sequence of a novel human secreted and		CC
CC	transmembrane PRO polypeptide		CC
XX	SQ Sequence 667 AA;		CC
Query Match 98.8%; Score 1048; DB 6; Length 667;			CC
Best Local Similarity 99.0%; Pred. No. 1.3e-105;			CC
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;			CC
Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHACLASLSIL 61			CC
3 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHACLASLSIL 62			CC
Query Match 98.8%; Score 1048; DB 6; Length 667;			CC
Best Local Similarity 99.0%; Pred. No. 1.3e-105;			CC
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;			CC
Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHACLASLSIL 61			CC
3 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHACLASLSIL 62			CC

Db 3 SQPAGNQTPGATEDYSYGSWYIDEPQGGEELOPEGEVPSCHTSIPPGLYHACLASLSIL 62  
 Qy 62 VLLLAMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLSSCLLLPDED 121  
 Db 63 VLLLAMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLSSCLLLPDED 122  
 Qy 122 ALPFELTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLGLGTLSSWA 181  
 Db 123 ALPFELTLASAPSQDGKTEAPRGAWKILGLFYYAALYYPLAACATAAGHTAAHLGLGTLSSWA 182  
 Qy 182 HLGVQQWQRAECQPQPKI 199  
 Db 183 HLGVQQWQRAECQPQPKI 200

RESULT 13  
 ABJ72395 ID ABJ72395 standard; protein; 667 AA.

XX AC ABJ72395;  
 XX DT 06-NOV-2003 (first entry)  
 XX DE Human PRO10282 protein.  
 XX KW blood; proliferation; pericyte cell; TNF alpha; chondrocyte;  
 XX tumour necrosis factor; proliferation; differentiation; gene therapy;  
 XX dermal fibroblast.  
 XX OS Homo sapiens.  
 XX PN US2003027988-A1.  
 XX PD 06-FEB-2003.  
 XX PF 26-AUG-2002; 2002US-00227884.  
 XX PR 01-JUN-2001; 2001WO-US017800.  
 XX PR 29-JUN-2001; 2001WO-US021066.  
 XX PR 09-APR-2002; 2002US-00119480.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
 XX DR WPI; 2003-503301/47.  
 XX DR N-PSDB; ABT44548.  
 XX PT New PRO protein encoding nucleic acid, useful for preparing PRO  
 PT polypeptides and anti-PRO antibodies for detecting the presence of a  
 PT tumor in a mammal.  
 XX PS Claim 11; Fig 80; 324pp; English.

XX The invention relates to a novel isolated PRO protein encoding nucleic  
 CC acid. The nucleic acid of the invention may be useful for preparing PRO  
 CC polypeptides and anti-PRO antibodies for detecting the presence of a  
 CC tumour in a mammal. Furthermore, the molecules of the invention may be  
 CC useful for stimulating proliferation or gene expression in pericyte  
 CC cells, the release of tumour necrosis factor (TNF)-alpha from human  
 CC blood, the proliferation or differentiation of chondrocyte cells and for  
 CC inhibiting the proliferation of normal human dermal fibroblast cells.  
 CC Finally, the molecules may be utilised during gene therapy. The current  
 CC sequence is that of the human PRO protein of the invention  
 XX Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 3 SQPAGNQTPGATEDYSYGSWYIDEPQGGEELOPEGEVPSCHTSIPPGLYHACLASLSIL 62  
 Qy 62 VLLLAMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLSSCLLLPDED 121  
 Db 63 VLLLAMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLSSCLLLPDED 122  
 Qy 122 ALPFELTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLGLGTLSSWA 181  
 Db 123 ALPFELTLASAPSQDGKTEAPRGAWKILGLFYYAALYYPLAACATAAGHTAAHLGLGTLSSWA 182  
 Qy 182 HLGVQQWQRAECQPQPKI 199  
 Db 183 HLGVQQWQRAECQPQPKI 200

RESULT 14  
 ABO34290 ID ABO34290 standard; protein; 667 AA.

XX AC ABO34290;

XX DT 19-SEP-2003 (first entry)

XX DE Human secreted/transmembrane polypeptide PRO 10282.

XX KW chondrocyte stimulation; TNF-alpha stimulation; gene therapy;

XX human dermal fibroblast stimulation; tumour; tissue typing;

XX affinity purification.

XX OS Homo sapiens.

XX PN US2003044934-A1.

XX PD 06-MAR-2003.

XX PF 28-AUG-2002; 2002US-00230338.

XX PR 01-JUN-2001; 2001WO-US017800.

XX PR 29-JUN-2001; 2001WO-US021066.

XX PR 09-APR-2002; 2002US-00119480.

XX PA (GETH ) GENENTECH INC.

XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;

PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

XX DR WPI; 2003-492274/46.

XX DR N-PSDB; ACD82215.

XX PT New transmembrane polypeptides and nucleic acids encoding the

PT polypeptides, useful in gene therapy, in chromosome identification, as

PT chromosome markers, or in generating probes.

XX PS Claim 19; Fig 80; 315pp; English.

XX The invention relates to an isolated nucleic acid encoding a PRO

CC polypeptide. Nucleic acids that encode PRO can be used to generate either

CC transgenic animals or knock-out animals useful in developing and

CC screening of therapeutically useful reagents. The nucleic acids may also

be used in gene therapy for replacing defective gene, in chromosome

CC identification, as chromosome markers, or in generating probes to isolate

CC full length PRO cDNA. The PRO polypeptides are useful for chondrocyte

CC stimulation, TNF-alpha stimulation, human dermal fibroblasts stimulation

CC and for detecting the presence of tumour in an mammal. The PRO

CC polypeptides are useful as molecular markers for protein electrophoresis

CC and the isolated nucleic acids may be used for recombinantly expressing

CC those markers. The PRO polypeptides and nucleic acids may also be used in

CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for

CC PRO and in affinity purification of PRO from recombinant cell culture or

CC natural sources. The present sequence represents the amino acid sequence

CC of a human secreted/transmembrane PRO polypeptide

SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 6; Length 667;  
Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SOPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
Db 3 SOPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 121  
Db 63 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 122

Qy 122 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
Db 123 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQVWQRAECPQVKI 199  
Db 183 HLGVQVWQRAECPQVKI 200

RESULT 15  
ABJ72097 ID ABJ72097 standard; protein; 667 AA.

XX AC ABJ72097;  
XX DT 16-OCT-2003 (first entry)

XX DE Human membrane bound receptor/protein PRO10282 amino acid sequence.

XX KW Human; PRO; membrane bound protein; membrane bound receptor;  
KW cell proliferation; cell migration; cell differentiation;  
KW mitogenic factor; survival factor; cytotoxic factor;  
KW differentiation factor; neuropeptide; hormone; cell receptor;  
KW receptor-ligand interaction; cytosstatic; chondrocyte; tumour.  
XX OS Homo sapiens.  
XX PN US2003065147-A1.  
XX PD 03-APR-2003.  
XX PF 29-AUG-2002; 2002US-00232224.

XX PR 28-JUL-1999; 99US-0146222P.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-APR-2002; 2002US-00119480.  
XX PA (GETH ) GENENTECH INC.

PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurney AL, Smith V, Stephan JP, Watanabe CK, Wood WI;  
XX DR WPI; 2003-5222018/49.  
DR N-PSDB; ABT43921.

XX PT One hundred and twenty two nucleic acids encoding PRO polypeptides,  
PT useful for the manufacture of a medicament for diagnosing or treating  
PT tumor.

XX PS Claim 11; Fig 80; 315pp; English.

CC governed by information received from other cells and the immediate  
CC environment. The information is often transmitted by secreted  
CC polypeptides (for example mitogenic factors, survival factors, cytotoxic  
CC factors, differentiaton factors, neuropeptides and hormones) which are  
CC received and interpreted by diverse cell receptors or membrane bound  
CC proteins. These membrane bound proteins and receptors may be of use as  
CC pharmaceutical and diagnostic agents, such as in the blocking of receptor  
CC -ligand interactions. The current invention provides the amino acid  
CC sequences of novel human membrane bound receptors and proteins, along  
CC with the cDNA sequences encoding them. The novel proteins of the  
CC invention may have cytosstatic activities through the stimulation of  
CC chondrocytes. The nucleic acids of the invention may be useful for the  
CC manufacture of a medicament for diagnosing or treating a tumour in a  
CC mammal. In addition, they may be useful for measuring or detecting the  
CC expression of a tumour associated gene. The present sequence is the amino  
CC acid sequence of a human PRO protein of the invention  
XX SQ Sequence 667 AA;

Query Match 98.8%; Score 1048; DB 7; Length 667;  
Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
Db 3 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 121  
Db 63 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 122

Qy 122 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
Db 123 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQVWQRAECPQVKI 199  
Db 183 HLGVQVWQRAECPQVKI 200

Query Match 98.8%; Score 1048; DB 7; Length 667;  
Best Local Similarity 99.0%; Pred. No. 1.3e-105;  
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
Db 3 SQPAGNOTSPGATEDYSYGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 121  
Db 63 VLLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPPDED 122

Qy 122 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
Db 123 ALPFITLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQVWQRAECPQVKI 199  
Db 183 HLGVQVWQRAECPQVKI 200

Search completed: February 8, 2005, 13:36:11  
Job time : 91.4866 secs

GenCore version 5.1.6  
 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model  
 Run on: February 8, 2005, 13:30:00 ; Search time 23.5458 Seconds  
 (without alignments)  
 630.905 Million cell updates/sec

Title: US-09-816-653A-2  
 Perfect score: 1061  
 Sequence: 1 MSQPAGNOTSPGATEDSYG.....WAHLGVQVWQRRAECQPQVKI 199

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Issued Patents AA:  
 1: /cggn2\_6/ptodata/1/iaa/5A\_COMB.pep:  
 2: /cggn2\_6/ptodata/1/iaa/5B\_COMB.pep:  
 3: /cggn2\_6/ptodata/1/iaa/6A\_COMB.pep:  
 4: /cggn2\_6/ptodata/1/iaa/6B\_COMB.pep:  
 5: /cggn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:  
 6: /cggn2\_6/ptodata/1/iaa/backfiles1.pep:  
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	88	8.3	509	4	US-09-252-991A-21709 Sequence 21709, A
2	85.5	8.1	380	3	US-08-924-345-2 Sequence 2, Appli
3	84	7.9	913	4	US-09-140-378A-2 Sequence 2, Appli
4	84	7.9	919	1	US-08-336-343A-2 Sequence 2, Appli
5	84	7.9	937	4	US-09-949-016-8366 Sequence 8366, Ap
6	84	7.9	937	4	US-09-949-016-8367 Sequence 8367, Ap
7	84	7.9	937	4	US-09-949-016-8368 Sequence 8368, Ap
8	83	7.8	913	1	US-08-445-640-4 Sequence 4, Appli
9	83	7.8	913	3	US-08-170-558-4 Sequence 4, Appli
10	83	7.8	913	3	US-08-447-314-4 Sequence 4, Appli
11	83	7.8	913	3	US-08-445-461-4 Sequence 4, Appli
12	83	7.8	913	4	US-09-223-490-4 Sequence 4, Appli
13	81	7.6	429	4	US-09-252-991A-30376 Sequence 30376, A
14	80.5	7.6	463	4	US-09-252-991A-19381 Sequence 19381, A
15	80	7.5	433	3	US-09-106-075A-86 Sequence 86, Appli
16	80	7.5	699	5	PCT-US94-07297-39 Sequence 39, Appli
17	80	7.5	921	1	US-08-396-479B-2 Sequence 2, Appli
18	80	7.5	921	1	US-08-818-823-2 Sequence 2, Appli
19	80	7.5	1171	4	US-09-417-197-131 Sequence 131, App
20	80	7.5	1181	4	US-09-417-197-133 Sequence 133, App
21	79.5	7.5	435	4	US-09-902-540-14931 Sequence 14931, A
22	79	7.4	505	1	US-08-221-750A-5 Sequence 5, Appli
23	78.5	7.4	369	4	US-09-902-540-10817 Sequence 10817, A
24	78.5	7.4	532	4	US-09-949-016-6607 Sequence 6607, Ap
25	78.5	7.4	540	4	US-09-252-991A-22555 Sequence 22555, A
26	78.5	7.4	3519	3	US-09-428-517-4 Sequence 4, Appli
27	78	7.4	475	4	US-09-252-991A-25837 Sequence 25837, A

## ALIGNMENTS

RESULT 1  
 US-09-252-991A-21709  
 ; Sequence 21709, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenstein et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: US/09/252, 991A  
 ; CURRENT APPLICATION NUMBER: US/09/252, 991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074, 788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094, 190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 21709  
 ; LENGTH: 509  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-21709

Query Match 8.3%; Score 88; DB 4; Length 509;  
 Best Local Similarity 27.3%; Pred. No. 0.3;  
 Matches 51; Conservative 13; Mismatches 65; Indels 58; Gaps 12;

Qy 26 EPQGGXELQPEGEVPSCH----TSIIPGLYHACLASLISILVLLAMLYVRRLQLW--- 76  
 Db 188 EPQPGGRRLRAPGALPADHRGSYVRDFPP--HA--AGLS-----NRRHGAWSRSPA 232  
 Qy 77 ---PDC--VRGRPGLFSPVDF----LAGDRPRPAVPAVMVLLSSCLLLPDEDALPF 125  
 Db 233 GATEACRMMLAGLPGGHGPLDHRPVAGPAGGGTARRAPRAA---GTLCRAVPRAAALS 287  
 Qy 126 LTLASA----PSQDGKTEAPRGAW----KILGLFHYAALYYP----LAACATAGH 168  
 Db 288 RGVRAGVFPRRRDAATLGQRGAGPVARSRRRIPGAQFQYP-HYPSDPADLVPAAAAGR 346  
 Qy 169 TAAHLLG 175  
 Db 347 TQARTGG 353

RESULT 2  
 US-08-924-345-2  
 ; Sequence 2, Application US/08924345  
 ; Patent No. 6224878  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LEUNG-TACK Patricia  
 ; APPLICANT: LEGASTELLOIS Isabelle, Christine, Marie-Andree

APPLICANT: AUDONNET Jean-Christophe, Francis  
 APPLICANT: RIVIERE Michel, Emile, Albert  
 TITLE OF INVENTION: Mutants and vaccines of the Infectious  
 TITLE OF INVENTION: Bovine Rhinotracheitis virus  
 NUMBER OF SEQUENCES : 7  
 CORRESPONDENCE ADDRESS :  
 ADDRESSEE: LARSON AND TAYLOR  
 STREET: 727 SOUTH TWENTY-THIRD STREET  
 CITY: ARLINGTON  
 STATE: VIRGINIA  
 COUNTRY: USA  
 ZIP: 22202

COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/924,345  
 FILING DATE: 04-SEP-1997  
 CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/199,172  
 FILING DATE: 09-AUG-1994  
 APPLICATION NUMBER: FR 92 07930  
 FILING DATE: 26-JUN-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: SARRO, THOMAS P.  
 REGISTRATION NUMBER: 19396  
 REFERENCE/DOCKET NUMBER: XI  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703) 920-7200  
 TELEFAX: (703) 892-8428  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 380 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-924-345-2

PRIOR FILING DATE: 1993-06-14  
 PRIOR APPLICATION NUMBER: US 08/292,299  
 PRIOR FILING DATE: 1994-08-16  
 NUMBER OF SEQ ID NOS: 6  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 2  
 LENGTH: 913  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: discoidin domain receptor (DDR) tyrosine kinase  
 NAME/KEY: PEPTIDE  
 LOCATION: (1) .. (18)  
 OTHER INFORMATION: signal peptide  
 NAME/KEY: SITE  
 LOCATION: (19) .. (24)  
 OTHER INFORMATION: uncertain point of signal peptide cleavage between amino acids 19  
 NAME/KEY: DOMAIN  
 LOCATION: (31) .. (185)  
 OTHER INFORMATION: discoidin I-type domain  
 NAME/KEY: SITE  
 LOCATION: (374) .. (415)  
 OTHER INFORMATION: proline/glycine-rich portion of connecting region interrupted by  
 NAME/KEY: TRANSMEM  
 LOCATION: (417) .. (439)  
 OTHER INFORMATION: transmembrane domain  
 NAME/KEY: TURN  
 LOCATION: (510) .. (513)  
 OTHER INFORMATION: tight turn recognition motif for internalization in coated pits  
 NAME/KEY: DOMAIN  
 LOCATION: (616) .. (905)  
 OTHER INFORMATION: tyrosine kinase domain  
 US-09-140-378A-2

Query Match 7.9%; Score 84; DB 4; Length 913;  
 Best Local Similarity 22.7%; Pred. No. 1.9;  
 Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

Qy 7 NOTSGATEDYSGSWYIDEPQ---GGXELQPEGEVPSCHT-SIIPPGLYHACLASLSQL 61  
 Db 370 NSSSEPALGGTFPPAPWWPPGPPPTNFSSLEPRQQPVAKAEGSPTAILIGCLVAIIL 429

Qy 62 VILLAMLV-----RRRQLWP-----CVRGRGPGLPSPVVDFL--- 93  
 Db 430 LLLIALMLWRLLSKAERRVLEELTVHLSVPGDTIINNRPGPREPPPQEPRP 489

Qy 94 AGDRRAVPAAVFWYVLLSSCLLIPDEALPFTLTASAPSQDGKTEAPRGAW 145  
 Db 490 RGNPHSAPC---VPNGSALLSNPAYRLLATYARPPRGPG---PPTPAW 534

RESULT 4  
 US-08-336-343A-2

Sequence 2, Application US/08336343A  
 Patent No. 567144

GENERAL INFORMATION:  
 NUMBER OF SEQUENCES: 43  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Pennie & Edmonds  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible

RESULT 3  
 US-09-140-378A-2  
 Sequence 2, Application US/09140378A  
 Patent No. 6627733

GENERAL INFORMATION:  
 APPLICANT: Johnson, Jeffrey D.  
 APPLICANT: Rutter, William J.  
 APPLICANT: Edman, Jeffrey C.  
 APPLICANT: The Regents of the University of California  
 TITLE OF INVENTION: Receptor Tyrosine Kinase with a Discoidin-Type Binding  
 TITLE OF INVENTION: Domain  
 FILE REFERENCE: 023070-079010US  
 CURRENT APPLICATION NUMBER: US/09/140,378A  
 CURRENT FILING DATE: 1998-08-26  
 PRIOR APPLICATION NUMBER: US 08/077,254

OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/336,343A

FILING DATE: 08-NOV-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Coruzzi, Laura A.

REGISTRATION NUMBER: 30,742

REFERENCE/DOCKET NUMBER: 7683-065

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-9741/8864

TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 919 amino acids

TYPE: amino acid

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-336-343A-2

Query Match 7.9%; Score 84; DB 1; Length 919;  
 Best Local Similarity 22.7%; Pred. No. 1.9;  
 Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

Qy 7 NOTSPGATEDSYGSWYIDEPQ----GGXELQEPEGVPSCHT-SIIPGGLYHACLASLSIL 61

Db 370 NNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAILL 429

Qy 62 VLLLAMLV-----RRRQLWPD-----CVRGRPGLPSPVDFL--- 93

Db 430 LLLIALMLWRLHWRLLSKAERRVLEELTVHLSVPGDTILINRPGPREPPYYQERP 489

Qy 94 AGDRPRAVPAAVFMVLLSLCLLPDEDALPFLTLASAPSQDGKTEAPRGAW 145

Db 490 RGNPPHSAPC---VPNGSALLSNPAYRLLATYARPPRGPG---PPTPAW 534

RESULT 5

US-09-949-016-8366

GENERAL INFORMATION:

Patent No. 6812339

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 2000-04-14

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 8366

LENGTH: 937

Qy 7 NOTSPGATEDSYGSWYIDEPQ----GGXELQEPEGVPSCHT-SIIPGGLYHACLASLSIL 61

Db 394 NNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAILL 453

RESULT 6

US-09-949-016-8367

GENERAL INFORMATION:

Patent No. 6812339

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 8368

LENGTH: 937

Qy 7 NOTSPGATEDSYGSWYIDEPQ----GGXELQEPEGVPSCHT-SIIPGGLYHACLASLSIL 61

Db 394 NNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAILL 453

RESULT 7

US-09-949-016-8368

GENERAL INFORMATION:

Patent No. 6812339

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 8369

LENGTH: 937

Qy 7 NOTSPGATEDSYGSWYIDEPQ----GGXELQEPEGVPSCHT-SIIPGGLYHACLASLSIL 61

Db 394 NNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILIGCLVAILL 453

US-09-949-016-8368  
 Query Match 7.9%; Score 84; DB 4; Length 937;  
 Best Local Similarity 22.7%; Pred. No. 1.9;  
 Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;  
 Qy 7 NQTPGATEDYSWSYIDEHQ----GGXELQPEGEVPSCH-TSIPPGLYHACLASLSIL 61  
 Db 394 NNSSPALGGTFPPAPWPPGFPPTNFSSELEPRGQQVAKAEGSPTAILIGCLVAIIL 453  
 Db 62 VLLLAMLV-----RRRQLWPD-----CVRGRPGLPSPVDFL--- 93  
 Qy 54 LLLIALMLWRLLSKAERRVLEELTVHLSVPGDTILINRNPGPREPPYQEPRP 513  
 Db 454 RGNPPHSAPC---VPNGSALLSNPAYRLLATYARPPRGPG---PPTPAW 558  
 RESULT 8 US-08-445-640-4  
 Sequence 4, Application US/08445640  
 ; Patent No. 5709858  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Godowski, Paul J.  
 ; ADDRESS: Genentech, Inc.  
 ; STREET: 460 Point San Bruno Blvd  
 ; CITY: South San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94080  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: patin (Genentech)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/170,558  
 ; FILING DATE: 20-DEC-1993  
 ; CLASSIFICATION: 435  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/157563  
 ; FILING DATE: 23-NOV-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Hasak, Janet E.  
 ; REGISTRATION NUMBER: 28,616  
 ; REFERENCE/DOCKET NUMBER: 854C1  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415/225-1896  
 ; FAX: 415/952-9881  
 ; TELEX: 910/371-7168  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 913 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; US-08-170-558-4  
 ; Query Match 7.8%; Score 83; DB 1; Length 913;  
 ; Best Local Similarity 22.7%; Pred. No. 2.4;  
 ; Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;  
 ; Qy 7 NQTPGATEDYSWSYIDEHQ----GGXELQPEGEVPSCH-TSIPPGLYHACLASLSIL 61  
 ; Db 370 NNSSEALGGTFPPAPWPPGFPPTNFSSELEPRGQQVAKAEGSPTAILIGCLVAIIL 429  
 ; Query Match 7.8%; Score 83; DB 1; Length 913;  
 ; Best Local Similarity 22.7%; Pred. No. 2.4;  
 ; Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;  
 ; Qy 430 LLLIALMLWRLLSKAERRVLEELTVHLSVPGDTILINRNPGPREPPYQEPRP 489  
 ; Db 490 RGNPPHSAPC---VPNGSALLSNPAYRLLATYARPPRGPG---PPTPAW 534  
 ; Query Match 7.8%; Score 83; DB 1; Length 913;  
 ; Best Local Similarity 22.7%; Pred. No. 2.4;  
 ; Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;  
 ; Qy 490 RGNPPHSAPC---VPNGSALLSNPAYRLLATYARPPRGPG---PPTPAW 534

RESULT 10  
Sequence 4, Application US/08447314  
Patent No. 6087144

## GENERAL INFORMATION:

APPLICANT: Scadden, David T.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Baron, Will F.  
APPLICANT: Tyrosine Kinases  
TITLE OF INVENTION: Protein Tyrosine Kinases  
NUMBER OF SEQUENCES: 35

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno Blvd  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

## COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/447,314

FILING DATE: 22-MAY-1995

CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/170558

FILING DATE: 20-DEC-1993

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/157563

FILING DATE: 23-NOV-1993

## ATTORNEY/AGENT INFORMATION:

NAME: Hasak, Janet E.

REGISTRATION NUMBER: 28,616

REFERENCE/DOCKET NUMBER: 854C3

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-1896

TELEFAX: 415/952-9881

TELEX: 910/371-7168

## INFORMATION FOR SEQ ID NO: 4:

## SEQUENCE CHARACTERISTICS:

LENGTH: 913 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-08-447-314-4

## Query Match

Best Local Similarity 22.7%; Pred. No. 2.4;

Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

## Score 83; DB 3; Length 913;

## CVRGRPGLPSVDL---

## RRQLWPD-----

STREET: 460 Point San Bruno Blvd  
 CITY: South San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94080  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 5.25 inch, 360 kb floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patin (Genentech)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/223, 490  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/170, 558  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Hasak, Janet E.  
 REGISTRATION NUMBER: 28, 616  
 REFERENCE/DOCKET NUMBER: 854C1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/225-1896  
 TELEX: 910/371-7168  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 913 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 US-09-223-490-4

Query Match 7.8%; Score 83; DB 4; Length 913;  
 Best Local Similarity 22.7%; Pred. No. 2.4;  
 Matches 39; Conservative 20; Mismatches 73; Indels 40; Gaps 7;

Qy 7 NOTSPGATEDSYGSWYIDEPQ----GCXELQPEGEVPSCH-TSIPPGLYHACLASLIL  
 Db 370 NNSSPALGGTFPPAPWWPPGPPPTNFSLEPRGOQPVAKPEGSPTAILIGCLVAILL 429

Qy 62 VLLILLAMLV-----RRQLWPD-----CVRGRGLPSPVDFL--- 93  
 Db 430 LLLIAMLWRLHWRRLSLKAERRVLEELTWHLSVPGDTILINRGPREPYYQEPRP 489

Qy 94 AGDRPRAVPAAVFMVLLSLCLLPDEDALPFLTLASAPSQDGKTEAPRGAW 145  
 Db 490 RGNPPHSAPC---VPNGSALLSNPAYRLLJATYARPPRGPG--PPTPAW 534

RESULT 13 US-09-252-991A-30376  
 Sequence 30376, Application US/09252991A  
 Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 FILE REFERENCE: 107196-136  
 CURRENT APPLICATION NUMBER: US/09/252, 991A  
 PRIOR APPLICATION NUMBER: 1998-02-18  
 PRIOR FILING DATE: 1998-07-27  
 NUMBER OF SEQ ID NOS: 33142

Query Match 7.6%; Score 81; DB 4; Length 429;  
 Best Local Similarity 20.5%; Pred. No. 1.8;  
 Matches 39; Conservative 14; Mismatches 57; Indels 61; Gaps 13;

Qy 140 AP----REGAWKILGLFHYAALYYPLAACAA--TAGHTAAHLLGTLSTSWAHLGVQV 187  
 Db 178 VPHLPAGGEAGRYPHPPGAFRPAALRQPAADPAPGRASGAAALLEGSRSLPRHHLHRAA 237

Qy 188 WQRA 191  
 Db 238 GQRS 241

---

Matches 56; Conservative 8; Mismatches 70; Indels 50; Gaps 9;  
 Qy 33 LQPGEVPSCTSIPPGLYHACLASLISLVLILLAMVPRR---QLWPD---CVRGRPG 85  
 Db 83 LHPERHQPDHRHRFFP--VRSQRAERTIDGGHRPVRPRRTSLQLWPDRERGIRGKPO 140

Qy 86 LPSPVDFLAGDRPRAVPAAVFMVLLSLCLLPDEDALP----FLTLASAPSQDGKTE 139  
 Db 141 ----LGGIQPAAGSA----LPRRQADHRQRRLFL---SHPGQAGAPD 177

Qy 140 AP----REGAWKILGLFHYAALYYPLAACAA--TAGHTAAHLLGTLSTSWAHLGVQV 187  
 Db 178 VPHLPAGGEAGRYPHPPGAFRPAALRQPAADPAPGRASGAAALLEGSRSLPRHHLHRAA 237

Qy 188 WQRA 191  
 Db 238 GQRS 241

RESULT 14 US-09-252-991A-19381  
 Sequence 19381, Application US/09252991A  
 Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 FILE REFERENCE: 107196-136  
 CURRENT APPLICATION NUMBER: US/09/252, 991A  
 CURRENT FILING DATE: 1999-02-18  
 PRIOR APPLICATION NUMBER: US 60/074, 788  
 PRIOR FILING DATE: 1998-02-18  
 PRIOR APPLICATION NUMBER: US 60/094, 190  
 PRIOR FILING DATE: 1998-07-27  
 NUMBER OF SEQ ID NOS: 33142  
 SEQ ID NO 19381  
 LENGTH: 463  
 TYPE: PRT  
 ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-19381

Query Match 7.6%; Score 80.5; DB 4; Length 463;  
 Best Local Similarity 29.0%; Pred. No. 1.8;  
 Matches 54; Conservative 14; Mismatches 57; Indels 61; Gaps 13;

Qy 27 PQGGXELQPEGEVPSCTSIPPGLYHACLASLISLVLILLAMVRRQLWPDCVRGRP-- 84  
 Db 226 PLGGQWLADLGGHP-----AVFATLAVLLASLAALVV---PAWPET---RPLL 267

Qy 85 -GLPSPVDF---LAGDRP---RAVPAAVFMVLLSLC---LLL PDEDALPF---LT 127  
 Db 268 AGTPEPATIAFRRLVADRPLQTRALLVAVLNVLVFSFYAAGPPFWGDLPGLGFWIGLA 327

Qy 128 LASAPSQDG--KTEAPRGAWKI----LGLFHYAALYYPLAACATAGHTAAHLLGST-- 177  
 Db 328 IAAGSSLGALLNRRLPR-TWNSARRVRLGL-----ALAAAGATAQTLLAAVGYA 375

RESULT 15 US-09-106-075A-86  
 Sequence 86, Application US/09106075A  
 Patent No. 6316250  
 GENERAL INFORMATION:  
 APPLICANT: Hjelle MD, Brian  
 TITLE OF INVENTION: Molecular Clones Producing Recombinant DNA Antigens of  
 FILE REFERENCE: the HARDS Virus.  
 CURRENT APPLICATION NUMBER: US/09/106, 075A

Query Match 7.6%; Score 81; DB 4; Length 429;  
 Best Local Similarity 30.4%; Pred. No. 1.5;

Qy 178 -LSWA 181  
 Db 376 EGLYWA 381

CURRENT FILING DATE: 1998-06-29  
PRIOR APPLICATION NUMBER: 08/210,762  
PRIOR FILING DATE: 1994-03-22  
PRIOR APPLICATION NUMBER: 08/141,035  
PRIOR FILING DATE: 1993-10-26  
PRIOR APPLICATION NUMBER: 08/120,096  
PRIOR FILING DATE: 1993-09-13  
PRIOR APPLICATION NUMBER: 08/111,519  
PRIOR FILING DATE: 1993-08-25  
NUMBER OF SEQ ID NOS: 90  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 86  
LENGTH: 433  
TYPE: PRT  
ORGANISM: Prospect Hill virus  
S-09-106-075A-B6

search completed: February 8, 2005, 13:42:10  
job time : 24.5458 secs

*This Page Blank (uspto)*

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 8, 2005, 13:32:20 ; Search time 66.4599 Seconds  
 975.246 Million cell updates/sec (without alignments)

Title: US-09-816-653a-2

Perfect score: 1061

Sequence: 1 MSQAGNQTSQGATEDYSYG.....WAHLGVQVWORAECQPQVKI 199

Scoring table: BL0SUM62

Gapext: 0.5

Searched: 1373511 seqs, 325702437 residues

Total number of hits satisfying chosen parameters: 1373511

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : Published Applications AA:  
 1: /cgn2\_6/ptodata/2/pubcaa/US07\_PUBCOMB.pep:  
 2: /cgn2\_6/ptodata/2/pubcaa/PC7\_NEW\_PUB.pep:  
 3: /cgn2\_6/ptodata/2/pubcaa/US06\_NEW\_PUB.pep:  
 4: /cgn2\_6/ptodata/2/pubcaa/US05\_PUBCOMB.pep:  
 5: /cgn2\_6/ptodata/2/pubcaa/US07\_NEW\_PUB.pep:  
 6: /cgn2\_6/ptodata/2/pubcaa/PCTUS\_PUBCOMB.pep:  
 7: /cgn2\_6/ptodata/2/pubcaa/US08\_NEW\_PUB.pep:  
 8: /cgn2\_6/ptodata/2/pubcaa/US08\_PUBCOMB.pep:  
 9: /cgn2\_6/ptodata/2/pubcaa/US09A\_PUBCOMB.pep:  
 10: /cgn2\_6/ptodata/2/pubcaa/US09B\_PUBCOMB.pep:  
 11: /cgn2\_6/ptodata/2/pubcaa/US09C\_PUBCOMB.pep:  
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 19: /cgn2\_6/ptodata/2/pubcaa/US60\_PUBCOMB.pep:  
 20: /cgn2\_6/ptodata/2/pubcaa/US60\_PUBCOMB.pep:  
 21: 1048 98.8 667 14 US-10-219-479-80  
 22: 1048 98.8 667 14 US-10-219-481-80  
 23: 1048 98.8 667 14 US-10-218-956-80  
 24: 1048 98.8 667 14 US-10-230-260-80  
 25: 1048 98.8 667 14 US-10-232-231-80  
 26: 1048 98.8 667 14 US-10-232-233-80  
 27: 1048 98.8 667 14 US-10-216-165-80  
 28: 1048 98.8 667 14 US-10-218-956-80  
 29: 1048 98.8 667 14 US-10-219-468-80  
 30: 1048 98.8 667 14 US-10-219-478-80  
 31: 1048 98.8 667 14 US-10-219-536-80  
 32: 1048 98.8 667 14 US-10-233-205-80  
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 35: 1048 98.8 667 14 US-10-219-474-80  
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 40: 1048 98.8 667 14 US-10-227-882-80  
 41: 1048 98.8 667 14 US-10-232-223-80  
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 43: 1048 98.8 667 14 US-10-232-227-80  
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 45: 1048 98.8 667 14 US-10-232-229-80

## ALIGNMENTS

RESULT 1  
 US-09-816-653A-2  
 ; Sequence 2, Application US/09816653A  
 ; Publication No. US20030021788A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Pennica, Diane  
 ; TITLE OF INVENTION: NOVEL HUMAN STRA6-LIKE PROTEIN AND NUCLEIC ACIDS ENCODING THE SA  
 ; CURRENT APPLICATION NUMBER: US/09/816\_653A  
 ; FILE REFERENCE: 10716/57  
 ; CURRENT FILING DATE: 2001-03-23  
 ; PRIOR APPLICATION NUMBER: 60/191,532  
 ; PRIOR FILING DATE: 2000-03-23  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 2  
 ; LENGTH: 199  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens hSTRA6 amino terminal polypeptide fragment  
 ; FEATURE:  
 ; NAME/KEY: MISC\_FEATURE  
 ; LOCATION: (31)-(31)  
 ; OTHER INFORMATION: Xaa is any amino acid  
 US-09-816-653A-2  
 ; Query Match 99.8%; Score 1059; DB 10; Length 199;  
 ; Best Local Similarity 100.0%; Pred. No. 1.4e-96;  
 ; Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 1 MSQPAGNOTSPGATEDYSGSWYDEPQQGKXELQPEGEVPSCHTSIPPGLYHACLASLSI 60  
 QY  
 1 MSQPAGNOTSPGATEDYSGSWYDEPQQGKXELQPEGEVPSCHTSIPPGLYHACLASLSI 60  
 Db  
 61 LVLILLAMLYRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAVFMVLLSSLCLLPDE 120  
 QY  
 61 LVLILLAMLYRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAVFMVLLSSLCLLPDE 120  
 Db

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1059	99.8	199	10 US-09-816-653A-2	Sequence 2, Appli
2	1048	98.8	487	16 US-10-362-240-2	Sequence 2, Appli
3	1048	98.8	667	9 US-09-759-056-2	Sequence 2, Appli
4	1048	98.8	667	9 US-09-901-812-2	Sequence 2, Appli
5	1048	98.8	667	10 US-09-863-776-67	Sequence 67, Appli
6	1048	98.8	667	14 US-10-227-884-80	Sequence 80, Appli
7	1048	98.8	667	14 US-10-230-163-80	Sequence 80, Appli
8	1048	98.8	667	14 US-10-230-338-80	Sequence 80, Appli
9	1048	98.8	667	14 US-10-218-631-80	Sequence 80, Appli
10	1048	98.8	667	14 US-10-230-414-80	Sequence 80, Appli
11	1048	98.8	667	14 US-10-232-224-80	Sequence 80, Appli
12	1048	98.8	667	14 US-10-216-159A-80	Sequence 80, Appli
13	1048	98.8	667	14 US-10-218-849-80	Sequence 80, Appli



**RESULT 5**

Qy 182 HLGVQWQRAECPQVPKI 199  
Db 183 HLGVQWQRAECPQVPKI 200

US-09-863-776-67

Sequence 67, Application US/09863776

GENERAL INFORMATION:

APPLICANT: Spytek, Kimberly A

APPLICANT: Majumder, Kumud

APPLICANT: Tchernev, Velizar T

APPLICANT: Mishra, Vishnu

APPLICANT: Padigaru, Muralidhara

APPLICANT: Spaderna, Steven K

APPLICANT: Shenoy, Suresh G

APPLICANT: Rastelli, Luca

APPLICANT: Li, Li

APPLICANT: Taupier, Raymond J

APPLICANT: Gangolli, Esha

TITLE OF INVENTION: No. US20030198953A1 el Proteins and Nucleic Acids Encoding Same

FILE REFERENCE: 21402-020

CURRENT APPLICATION NUMBER: US/09/863,776

CURRENT FILING DATE: 2001-05-23

PRIOR APPLICATION NUMBER: 09/540,763

PRIOR FILING DATE: 2000-03-30

PRIOR APPLICATION NUMBER: 60/206,679

PRIOR FILING DATE: 2000-05-24

PRIOR APPLICATION NUMBER: 60/206,688

PRIOR FILING DATE: 2000-05-24

PRIOR APPLICATION NUMBER: 60/206,829

PRIOR FILING DATE: 2000-05-24

PRIOR APPLICATION NUMBER: 60/207,748

PRIOR FILING DATE: 2000-05-30

PRIOR APPLICATION NUMBER: 60/207,798

PRIOR FILING DATE: 2000-05-30

PRIOR APPLICATION NUMBER: 60/208,263

PRIOR FILING DATE: 2000-05-31

PRIOR APPLICATION NUMBER: 60/208,831

PRIOR FILING DATE: 2000-06-02

PRIOR APPLICATION NUMBER: 60/209,451

PRIOR FILING DATE: 2000-06-05

PRIOR APPLICATION NUMBER: 60/210,060

PRIOR FILING DATE: 2000-06-07

PRIOR APPLICATION NUMBER: 60/219,507

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: 60/221,337

PRIOR FILING DATE: 2000-07-26

PRIOR APPLICATION NUMBER: 60/221,927

PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: 60/263,135

PRIOR FILING DATE: 2001-01-19

PRIOR APPLICATION NUMBER: 60/263,688

PRIOR FILING DATE: 2001-01-24

PRIOR APPLICATION NUMBER: 60/263,694

NUMBER OF SEQ ID NOS: 155

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO: 67

LENGTH: 667

TYPE: PRT

ORGANISM: Homo sapiens

us-09-863-776-67

Qy 62 VLLILLAMLYRRQLWPDCVRGPGPLSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPDED 121  
Db 63 VLLILLAMLYRRQLWPDCVRGPGPLSPVDFLAGDRPRAVPAAVFMVLLSSLCLLPDED 122

Qy 122 ALPFILTASAPSQDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSSWA 181  
Db 123 ALPFILTASAPSQDGKTEAPRGAWKILGLFYYAALYPLAACATAGHTAAHLLGSTLSSWA 182

Qy 182 HLGVQWQRAECPQVPKI 199  
Db 183 HLGVQWQRAECPQVPKI 200

**RESULT 6**

US-10-227-884-80

Sequence 80, Application US/10227884

Publication No. US20030027988A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Desnoyers, Luc

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Smith, Victoria

APPLICANT: Stephan, Jean-Philippe F.

APPLICANT: Watanebe, Colin L.

APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P3530P1C79

CURRENT APPLICATION NUMBER: US/10/227,884

CURRENT FILING DATE: 2002-08-26

PRIOR APPLICATION NUMBER: 10/119,480

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: 60/059113

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/062287

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063549

PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/064103

PRIOR FILING DATE: 1997-10-31

PRIOR APPLICATION NUMBER: 60/069873

PRIOR FILING DATE: 1997-12-17

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294

PRIOR FILING DATE: 1998-03-25

PRIOR APPLICATION NUMBER: 60/079656

PRIOR FILING DATE: 1998-03-26

PRIOR APPLICATION NUMBER: 60/079728

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/081819

PRIOR FILING DATE: 1998-04-15

PRIOR APPLICATION NUMBER: 60/081955

PRIOR FILING DATE: 1998-04-15

PRIOR APPLICATION NUMBER: 60/082804

PRIOR FILING DATE: 1998-04-22

PRIOR APPLICATION NUMBER: 60/085579

PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/086392

PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/089532

PRIOR FILING DATE: 1998-06-17

PRIOR APPLICATION NUMBER: 60/089538

PRIOR FILING DATE: 1998-06-17

Query Match 98.8%; Score 1048; DB 10; Length 667;  
Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDSYGSWYIDEPOGGXELQPEGEVPSCHTSIPPGLYHAACLASLSIL 61  
Db 3 SQPAGNOTSPGATEDSYGSWYIDEPOGGEBELQPEGEVPSCHTSIPPGLYHAACLASLSIL 62

PRIOR APPLICATION NUMBER: 60/089905  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090691  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/095302  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/095318  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/095916  
PRIOR FILING DATE: 1998-08-10  
PRIOR APPLICATION NUMBER: 60/096146  
PRIOR FILING DATE: 1998-08-11  
PRIOR APPLICATION NUMBER: 60/096791  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: 60/097986  
PRIOR FILING DATE: 1998-08-26  
PRIOR APPLICATION NUMBER: 60/098544  
PRIOR FILING DATE: 1998-08-31  
PRIOR APPLICATION NUMBER: 60/099596  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: 60/099598  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: 60/099803  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099811  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099812  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099816  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/100038  
PRIOR FILING DATE: 1998-09-11  
PRIOR APPLICATION NUMBER: 60/1000385  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/1000390  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100627  
PRIOR FILING DATE: 1998-09-16  
PRIOR APPLICATION NUMBER: 60/100848  
PRIOR FILING DATE: 1998-09-18  
PRIOR APPLICATION NUMBER: 60/100919  
PRIOR FILING DATE: 1998-09-17  
PRIOR APPLICATION NUMBER: 60/101477  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/101786  
PRIOR FILING DATE: 1998-09-25  
PRIOR APPLICATION NUMBER: 60/101916  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/101922  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/106178  
PRIOR FILING DATE: 1998-10-28  
PRIOR APPLICATION NUMBER: 60/106248  
PRIOR FILING DATE: 1998-10-29  
PRIOR APPLICATION NUMBER: 60/106464  
PRIOR FILING DATE: 1998-10-30  
PRIOR APPLICATION NUMBER: 60/106905  
PRIOR FILING DATE: 1998-11-03  
PRIOR APPLICATION NUMBER: 60/108787  
PRIOR FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: 60/108801

Query Match 98.8%; Score 1048; DB 14; Length 667;  
Best Local Similarity 99.0%; Pred. No. 7.3e-95;

Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSYGSWYDEPOCGXXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
 Qy 3 SQPAGNOTSPGATEDYSYGSWYDEPOCGGEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Db 62 VLLLIALMLVRRQLWPDCVRGRPGLSPVDFLAGDRPRAVPAAVFMVLSSCLLPPDED 121  
 Db 63 VLLLIALMLVRRQLWPDCVRGRPGLSPVDFLAGDRPRAVPAAVFMVLSSCLLPPDED 122

Qy 122 ALPFELTLASAPSQDGKTEAPRGAWKILGFLHYAALYYPLAACATAGHTAAHLGSTLSWA 181  
 Qy 182 HLGVQVWQRAECPQVPKI 199

Db 123 ALPFELTLASAPSQDGKTEAPRGAWKILGFLFYAALYYPLAACATAGHTAAHLGSTLSWA 182  
 Db 183 HLGVQVWQRAECPQVPKI 200

---

RESULT 7

US-10-230-163-80

; Sequence 80, Application US/10230163

; Publication No. US20030036635A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Desnoyers, Luc

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Smith, Victoria

; APPLICANT: Stephan, Jean-Philippe F.

; APPLICANT: Watanabe, Colin L.

; APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P3530P1C96

CURRENT APPLICATION NUMBER: US/10/230,163

CURRENT FILING DATE: 2002-08-28

PRIOR APPLICATION NUMBER: 10/119,480

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: 60/059113

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/062287

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063549

PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/064103

PRIOR FILING DATE: 1997-10-31

PRIOR APPLICATION NUMBER: 60/069873

PRIOR FILING DATE: 1998-03-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/081819

PRIOR FILING DATE: 1998-04-15

PRIOR APPLICATION NUMBER: 60/081955

PRIOR FILING DATE: 1998-04-15

PRIOR APPLICATION NUMBER: 60/082804

PRIOR FILING DATE: 1998-04-22

PRIOR APPLICATION NUMBER: 60/084441

PRIOR FILING DATE: 1998-05-06

PRIOR APPLICATION NUMBER: 60/085323

PRIOR FILING DATE: 1998-05-13

PRIOR APPLICATION NUMBER: 60/085579

PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/086392

PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/089532

PRIOR FILING DATE: 1998-06-17

PRIOR APPLICATION NUMBER: 60/089538

PRIOR FILING DATE: 1998-06-17

PRIOR APPLICATION NUMBER: 60/089905

PRIOR FILING DATE: 1998-06-18

PRIOR APPLICATION NUMBER: 60/090472

PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090557

PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090691

PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090695

PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/091982

PRIOR FILING DATE: 1998-07-07

PRIOR APPLICATION NUMBER: 60/095302

PRIOR FILING DATE: 1998-08-04

PRIOR APPLICATION NUMBER: 60/095318

PRIOR FILING DATE: 1998-08-04

PRIOR APPLICATION NUMBER: 60/095916

PRIOR FILING DATE: 1998-08-10

PRIOR APPLICATION NUMBER: 60/096146

PRIOR FILING DATE: 1998-08-11

PRIOR APPLICATION NUMBER: 60/096791

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: 60/097986

PRIOR FILING DATE: 1998-08-26

PRIOR APPLICATION NUMBER: 60/098544

PRIOR FILING DATE: 1998-08-31

PRIOR APPLICATION NUMBER: 60/099596

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099598

PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099803

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/099811

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/099812

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/099816

PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/100038

PRIOR FILING DATE: 1998-09-11

PRIOR APPLICATION NUMBER: 60/100385

PRIOR FILING DATE: 1998-09-15

PRIOR APPLICATION NUMBER: 60/100390

PRIOR FILING DATE: 1998-09-15

PRIOR APPLICATION NUMBER: 60/100627

PRIOR FILING DATE: 1998-09-16

PRIOR FILING DATE: 1998-09-17

PRIOR FILING DATE: 1998-09-17

PRIOR FILING DATE: 1998-09-23

PRIOR FILING DATE: 1998-09-24

PRIOR FILING DATE: 1998-09-25

PRIOR FILING DATE: 1998-10-28

PRIOR FILING DATE: 1998-10-28

PRIOR FILING DATE: 1998-10-29

PRIOR FILING DATE: 1998-10-30

PRIOR FILING DATE: 1998-10-30

; PRIOR FILING DATE: 1999-12-07  
 ; PRIOR APPLICATION NUMBER: 60/169835  
 Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 2 SQPAGNQTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLISL 61  
 Db 3 SQPAGNQTSPGATEDYSYGSWYIDEPQGXELQPEGEVPSCHTSIPPGLYHACLASLISL 62  
 Qy 62 VLLLIAMLYRRQLWPDCVRGRGLPSVDFLAGDRPRAVEMVLLSSCLLLPDED 121  
 Db 63 VLLLIAMLYRRQLWPDCVRGRGLPSVDFLAGDRPRAVEMVLLSSCLLLPDED 122  
 Qy 122 ALPFILTASAPSQDGKTEAPRGAWKILGFHYAALYPLAACATAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFILTASAPSQDGKTEAPRGAWKILGFYYAALYPLAACATAGHTAAHLLGSTLSWA 182  
 PRIOR APPLICATION NUMBER: 60/112422  
 PRIOR FILING DATE: 1998-12-15  
 PRIOR APPLICATION NUMBER: 60/113296  
 PRIOR FILING DATE: 1998-12-22  
 PRIOR APPLICATION NUMBER: 60/113605  
 PRIOR FILING DATE: 1998-12-23  
 PRIOR APPLICATION NUMBER: 60/113621  
 PRIOR FILING DATE: 1998-12-23  
 PRIOR APPLICATION NUMBER: 60/115558  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/115565  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/115733  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/119549  
 PRIOR FILING DATE: 1999-02-10  
 PRIOR APPLICATION NUMBER: 60/123618  
 PRIOR FILING DATE: 1999-03-10  
 PRIOR APPLICATION NUMBER: 60/125259  
 PRIOR FILING DATE: 1999-03-19  
 PRIOR APPLICATION NUMBER: 60/125775  
 PRIOR FILING DATE: 1999-03-23  
 PRIOR APPLICATION NUMBER: 60/126773  
 PRIOR FILING DATE: 1999-03-29  
 PRIOR APPLICATION NUMBER: 60/127887  
 PRIOR FILING DATE: 1999-04-05  
 PRIOR APPLICATION NUMBER: 60/130232  
 PRIOR FILING DATE: 1999-04-21  
 PRIOR APPLICATION NUMBER: 60/131022  
 PRIOR FILING DATE: 1999-04-26  
 PRIOR APPLICATION NUMBER: 60/131270  
 PRIOR FILING DATE: 1999-04-27  
 PRIOR APPLICATION NUMBER: 60/131291  
 PRIOR FILING DATE: 1999-04-27  
 PRIOR APPLICATION NUMBER: 60/131445  
 PRIOR FILING DATE: 1999-04-28  
 PRIOR APPLICATION NUMBER: 60/134287  
 PRIOR FILING DATE: 1999-05-14  
 PRIOR APPLICATION NUMBER: 60/140650  
 PRIOR FILING DATE: 1999-06-22  
 PRIOR APPLICATION NUMBER: 60/140723  
 PRIOR FILING DATE: 1999-06-22  
 PRIOR APPLICATION NUMBER: 60/141037  
 PRIOR FILING DATE: 1999-06-23  
 PRIOR APPLICATION NUMBER: 60/144758  
 PRIOR FILING DATE: 1999-07-20  
 PRIOR APPLICATION NUMBER: 60/145698  
 PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: 60/146222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: 60/146963  
 PRIOR FILING DATE: 1999-08-03  
 PRIOR APPLICATION NUMBER: 60/149320  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/149638  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/151733  
 PRIOR FILING DATE: 1999-08-31  
 PRIOR APPLICATION NUMBER: 60/164418  
 PRIOR FILING DATE: 1999-11-09  
 PRIOR APPLICATION NUMBER: 60/166361  
 PRIOR FILING DATE: 1999-11-16  
 PRIOR APPLICATION NUMBER: 60/169445  
 PRIOR FILING DATE: 1999-12-07  
 PRIOR APPLICATION NUMBER: 60/169495

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RESULT 8  
 US-10-230-338-80  
 ; Sequence 80, Application US/10230338  
 ; Publication No. US20030044934A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Philippe F.  
 ; APPLICANT: Watanabe, Colin L.  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3530P1C92  
 ; CURRENT APPLICATION NUMBER: US/10/230,338  
 ; CURRENT FILING DATE: 2002-08-28  
 ; PRIOR APPLICATION NUMBER: 60/059113  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/062287  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/063549  
 ; PRIOR FILING DATE: 1997-10-28  
 ; PRIOR APPLICATION NUMBER: 60/064103  
 ; PRIOR FILING DATE: 1997-10-31  
 ; PRIOR APPLICATION NUMBER: 60/069873  
 ; PRIOR FILING DATE: 1998-03-25  
 ; PRIOR APPLICATION NUMBER: 60/079656  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR APPLICATION NUMBER: 60/079728  
 ; PRIOR FILING DATE: 1998-03-27  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 246  
 ; SEQ ID NO 80  
 ; LENGTH: 667  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-230-338-80

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 2 SQPAGNOTSPGATEDSYGSWYDEPOQCGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61  
 Db 3 SQPAGNOTSPGATEDSYGSWYDEPOQCGEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62

Qy 62 VLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLLSSLCLLLPPDED 121  
 Db 63 VLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAFMVLLSSLCLLLPPDED 122

Qy 122 ALPFITLTLASAPSQDGKTEAPRGAWKILGLFHYAALYPLAACATAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFITLTLASAPSQDGKTEAPRGAWKILGLFYYAALYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQQWQRAECPQVPKI 199  
 Db 183 HLGVQQWQRAECPQVPKI 200

RESULT 10  
 US-10-230-414-80  
 Sequence 80, Application US/10230414  
 Publication No. US20030050448A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Stephan, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

CURRENT APPLICATION NUMBER: US/10/230,414  
 CURRENT FILING DATE: 2002-08-28  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/079656  
 PRIOR FILING DATE: 1998-03-26  
 PRIOR APPLICATION NUMBER: 60/079728  
 PRIOR FILING DATE: 1998-03-27  
 Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 246  
 SEQ ID NO 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 2 SQPAGNOTSPGATEDSYGSWYDEPOQCGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-10-218-631-80  
 Sequence 80, Application US/10218631  
 Publication No. US20030045687A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Stephan, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

CURRENT APPLICATION NUMBER: US/10/218,631  
 CURRENT FILING DATE: 2002-08-12  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/079656  
 PRIOR FILING DATE: 1998-03-26  
 PRIOR APPLICATION NUMBER: 60/079728  
 PRIOR FILING DATE: 1998-03-27  
 Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 246  
 SEQ ID NO 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-10-218-631-80  
 Sequence 80, Application US/10218631  
 Publication No. US20030045687A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Stephan, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

CURRENT APPLICATION NUMBER: US/10/218,631  
 CURRENT FILING DATE: 2002-08-12  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/079656  
 PRIOR FILING DATE: 1998-03-26  
 PRIOR APPLICATION NUMBER: 60/079728  
 PRIOR FILING DATE: 1998-03-27  
 Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 246  
 SEQ ID NO 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 3 SQPAGNOTSPGATEDYSYGSWYDEPGGGBELOPEGEVPSCHTSIPPGLYHACLASLSIL 62  
 Qy 62 VLLILLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVMVLSSLCLLIPDED 121  
 Db 63 VLLILLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAVMVLSSLCLLIPDED 122  
 Qy 122 ALPFLETLASAPSQDGKTEAPRGAWKILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFLETLASAPSQDGKTEAPRGAWKILGFHYAALYYPLAACATAGHTAAHLLGSTLSWA 182  
 Qy 182 HLGVQQWQRAECQPQVKI 199  
 Db 183 HLGVQQWQRAECQPQVKI 200

RESULT 11  
 US-10-232-224-80  
 Sequence 80, Application US/10232224  
 Publication No. US20030065147A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.  
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 FILE REFERENCE: P3530P1C111  
 CURRENT APPLICATION NUMBER: US/10/216,159A  
 CURRENT FILING DATE: 2002-08-09  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/079656  
 PRIOR FILING DATE: 1998-03-26  
 PRIOR APPLICATION NUMBER: 60/079728  
 PRIOR FILING DATE: 1998-03-27  
 Remaining Prior Application data removed - See File Wrapper or PALM.  
 NUMBER OF SEQ ID NOS: 246  
 SEQ ID NO 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-10-232-224-80

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSYGSWYDEPGGGBELOPEGEVPSCHTSIPPGLYHACLASLSIL 61  
 Db 3 SQPAGNOTSPGATEDYSYGSWYDEPGGGBELOPEGEVPSCHTSIPPGLYHACLASLSIL 62  
 Qy 62 VLLILLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVMVLSSLCLLIPDED 121  
 Db 63 VLLILLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAVMVLSSLCLLIPDED 122

Qy 122 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQWQRAECQPQPKI 199  
 Db 183 HLGVQWQRAECQPQPKI 200

RESULT 13  
 US-10-218-849-80  
 ; Sequence 80, Application US/10218849  
 ; Publication No. US20030073814A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Philippe F.  
 ; APPLICANT: Watanabe, Colin L.  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3530P1C11  
 ; CURRENT APPLICATION NUMBER: US/10/218,849  
 ; CURRENT FILING DATE: 2002-08-12  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 246  
 ; SEQ ID NO: 80  
 ; LENGTH: 667  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-218-849-80

Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNQNTSPGATEDYSGSWYDEPOQGXELQPEGVPSCTSIPPGLYTHACLASLISL 61  
 Db 3 SQPAGNQNTSPGATEDYSGSWYDEPOQGEELQPEGVPSCTSIPPGLYTHACLASLISL 62

Qy 62 VLLLLAMLVRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAVMVLLSSCLLPPDED 121  
 Db 63 VLLLLAMLVRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAVMVLLSSCLLPPDED 122

Qy 122 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLLGSTLSWA 181  
 Db 123 ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQWQRAECQPQPKI 199  
 Db 183 HLGVQWQRAECQPQPKI 200

RESULT 14  
 US-10-227-873-80  
 ; Sequence 80, Application US/10227873  
 ; Publication No. US20030073816A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Philippe F.

; APPLICANT: Watanabe, Colin L.  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3530P1C72  
 ; CURRENT APPLICATION NUMBER: US/10/227,873  
 ; CURRENT FILING DATE: 2002-08-26  
 ; PRIOR APPLICATION NUMBER: 10/119,480  
 ; PRIOR FILING DATE: 2002-04-09  
 ; PRIOR APPLICATION NUMBER: 60/059113  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/062287  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/063549  
 ; PRIOR FILING DATE: 1997-10-28  
 ; PRIOR APPLICATION NUMBER: 60/064103  
 ; PRIOR FILING DATE: 1997-10-31  
 ; PRIOR APPLICATION NUMBER: 60/069873  
 ; PRIOR FILING DATE: 1997-12-17  
 ; PRIOR APPLICATION NUMBER: 60/078910  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/079294  
 ; PRIOR FILING DATE: 1998-03-25  
 ; PRIOR APPLICATION NUMBER: 60/079656  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR APPLICATION NUMBER: 60/079728  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/081819  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/081955  
 ; PRIOR FILING DATE: 1998-04-15  
 ; PRIOR APPLICATION NUMBER: 60/082804  
 ; PRIOR FILING DATE: 1998-04-22  
 ; PRIOR APPLICATION NUMBER: 60/084441  
 ; PRIOR FILING DATE: 1998-05-06  
 ; PRIOR APPLICATION NUMBER: 60/085323  
 ; PRIOR FILING DATE: 1998-05-13  
 ; PRIOR APPLICATION NUMBER: 60/085579  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/086392  
 ; PRIOR FILING DATE: 1998-05-22  
 ; PRIOR APPLICATION NUMBER: 60/089532  
 ; PRIOR FILING DATE: 1998-06-17  
 ; PRIOR APPLICATION NUMBER: 60/089538  
 ; PRIOR FILING DATE: 1998-06-17  
 ; PRIOR APPLICATION NUMBER: 60/089905  
 ; PRIOR FILING DATE: 1998-06-18  
 ; PRIOR APPLICATION NUMBER: 60/090472  
 ; PRIOR FILING DATE: 1998-06-24  
 ; PRIOR APPLICATION NUMBER: 60/090557  
 ; PRIOR FILING DATE: 1998-06-24  
 ; PRIOR APPLICATION NUMBER: 60/090691  
 ; PRIOR FILING DATE: 1998-06-25  
 ; PRIOR APPLICATION NUMBER: 60/090695  
 ; PRIOR FILING DATE: 1998-06-25  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/095302  
 ; PRIOR FILING DATE: 1998-08-04  
 ; PRIOR APPLICATION NUMBER: 60/095318  
 ; PRIOR FILING DATE: 1998-08-04  
 ; PRIOR APPLICATION NUMBER: 60/095916  
 ; PRIOR FILING DATE: 1998-08-10  
 ; PRIOR APPLICATION NUMBER: 60/096146  
 ; PRIOR FILING DATE: 1998-08-11  
 ; PRIOR APPLICATION NUMBER: 60/096791  
 ; PRIOR FILING DATE: 1998-08-17  
 ; PRIOR APPLICATION NUMBER: 60/097986  
 ; PRIOR FILING DATE: 1998-08-26  
 ; PRIOR APPLICATION NUMBER: 60/098544  
 ; PRIOR FILING DATE: 1998-08-31  
 ; PRIOR APPLICATION NUMBER: 60/099596  
 ; PRIOR FILING DATE: 1998-09-09

PRIOR APPLICATION NUMBER: 60/099598  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: 60/099803  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099811  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099812  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099816  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100390  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100038  
PRIOR FILING DATE: 1998-09-11  
PRIOR APPLICATION NUMBER: 60/100385  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100390  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100627  
PRIOR FILING DATE: 1998-09-16  
PRIOR APPLICATION NUMBER: 60/100848  
PRIOR FILING DATE: 1998-09-18  
PRIOR APPLICATION NUMBER: 60/100919  
PRIOR FILING DATE: 1998-09-17  
PRIOR APPLICATION NUMBER: 60/101477  
PRIOR FILING DATE: 1998-09-23  
PRIOR APPLICATION NUMBER: 60/101738  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/101741  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/101786  
PRIOR FILING DATE: 1998-09-25  
PRIOR APPLICATION NUMBER: 60/101916  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/101922  
PRIOR FILING DATE: 1998-09-24  
PRIOR APPLICATION NUMBER: 60/106178  
PRIOR FILING DATE: 1998-10-28  
PRIOR APPLICATION NUMBER: 60/106248  
PRIOR FILING DATE: 1998-10-29  
PRIOR APPLICATION NUMBER: 60/106464  
PRIOR FILING DATE: 1998-10-30  
PRIOR APPLICATION NUMBER: 60/106905  
PRIOR FILING DATE: 1998-11-03  
PRIOR APPLICATION NUMBER: 60/108787  
PRIOR FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: 60/108801  
PRIOR FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: 60/108849  
PRIOR FILING DATE: 1998-11-18  
PRIOR APPLICATION NUMBER: 60/112422  
PRIOR FILING DATE: 1998-12-15  
PRIOR APPLICATION NUMBER: 60/113296  
PRIOR FILING DATE: 1998-12-22  
PRIOR APPLICATION NUMBER: 60/113605  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/113621  
PRIOR FILING DATE: 1998-12-23  
PRIOR APPLICATION NUMBER: 60/115558  
PRIOR FILING DATE: 1999-01-12  
PRIOR APPLICATION NUMBER: 60/115565  
PRIOR FILING DATE: 1999-01-12  
PRIOR APPLICATION NUMBER: 60/115733  
PRIOR FILING DATE: 1999-02-10  
PRIOR APPLICATION NUMBER: 60/123618  
PRIOR FILING DATE: 1999-03-10  
PRIOR APPLICATION NUMBER: 60/125259  
PRIOR FILING DATE: 1999-03-19  
PRIOR APPLICATION NUMBER: 60/125775  
PRIOR FILING DATE: 1999-03-23  
PRIOR APPLICATION NUMBER: 60/126773  
PRIOR FILING DATE: 1999-03-29  
PRIOR APPLICATION NUMBER: 60/127887

PRIOR FILING DATE: 1999-04-05  
PRIOR APPLICATION NUMBER: 60/130232  
PRIOR FILING DATE: 1999-04-21  
PRIOR APPLICATION NUMBER: 60/131022  
PRIOR FILING DATE: 1999-04-26  
PRIOR APPLICATION NUMBER: 60/131270  
PRIOR FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/131291  
PRIOR FILING DATE: 1999-04-27  
PRIOR APPLICATION NUMBER: 60/131445  
PRIOR FILING DATE: 1999-04-28  
PRIOR APPLICATION NUMBER: 60/134287  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: 60/140650  
PRIOR FILING DATE: 1999-06-22  
PRIOR APPLICATION NUMBER: 60/140723  
PRIOR FILING DATE: 1999-06-22  
PRIOR APPLICATION NUMBER: 60/141037  
PRIOR FILING DATE: 1999-06-23  
PRIOR APPLICATION NUMBER: 60/144758  
PRIOR FILING DATE: 1999-07-20  
PRIOR APPLICATION NUMBER: 60/145698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: 60/146222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: 60/146963  
PRIOR FILING DATE: 1999-08-03  
PRIOR APPLICATION NUMBER: 60/149320  
PRIOR FILING DATE: 1999-08-17  
PRIOR APPLICATION NUMBER: 60/149638  
PRIOR FILING DATE: 1999-08-17  
PRIOR APPLICATION NUMBER: 60/151733  
PRIOR FILING DATE: 1999-08-31  
PRIOR APPLICATION NUMBER: 60/164418  
PRIOR FILING DATE: 1999-11-09  
PRIOR APPLICATION NUMBER: 60/166361  
PRIOR FILING DATE: 1999-11-16  
PRIOR APPLICATION NUMBER: 60/169445  
PRIOR FILING DATE: 1999-12-07  
PRIOR APPLICATION NUMBER: 60/169495  
PRIOR FILING DATE: 1999-12-07  
PRIOR APPLICATION NUMBER: 60/169835

Query Match 98.8%; Score 1048; DB 14; Length 667;  
Best Local Similarity 99.0%; Pred. No. 7.3e-95;  
Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SQPAGNOTSPGATEDYSGSWYDEPOGGXELQPEGEVPSCHTSIPPGLYHACLASLIL 61  
Db 3 SQPAGNOTSPGATEDYSGSWYDEPOGGEEQLPEGEVPSCHTSIPPGLYHACLASLIL 62

Qy 62 VLLIAMLVRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAAVMVLSSCLLLPDED 121  
Db 63 VLLIAMLVRRQLWPDCVRGRGLPSPVDFLAGDRPRAVPAAVFMVLSSCLLLPDED 122

Qy 122 ALPFUTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA 181  
Db 123 ALPFUTLASAPSQDGKTEAPRGAWKILGFYYAALYYPLAACATAGHTAAHLLGSTLSWA 182

Qy 182 HLGVQWQRAECQPVPKI 199  
Db 183 HLGVQWQRAECQPVPKI 200

RESULT 15  
US-10-227-893-80  
Sequence 80, Application US/10227883  
Publication No. US20030073817A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Watanabe, Colin L.  
 APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P3530P1C78

CURRENT APPLICATION NUMBER: US/10/227,883

CURRENT FILING DATE: 2002-08-26

PRIOR APPLICATION NUMBER: 10/119,480

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: 60/059113

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/062287

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063549

PRIOR FILING DATE: 1997-10-28

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PRIOR APPLICATION NUMBER: 60/079656

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PRIOR APPLICATION NUMBER: 60/079728

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PRIOR APPLICATION NUMBER: 60/085323

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PRIOR APPLICATION NUMBER: 60/085579

PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/086392

PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/089905

PRIOR FILING DATE: 1998-06-18

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PRIOR APPLICATION NUMBER: 60/091982

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PRIOR APPLICATION NUMBER: 60/09695

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PRIOR APPLICATION NUMBER: 60/097986

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PRIOR APPLICATION NUMBER: 60/113296

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PRIOR APPLICATION NUMBER: 60/113605

PRIOR FILING DATE: 1999-01-12

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PRIOR APPLICATION NUMBER: 60/115565

PRIOR FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: 60/115733

PRIOR FILING DATE: 1999-01-12

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PRIOR FILING DATE: 1999-03-10

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PRIOR FILING DATE: 1999-03-19

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; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/126773
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: 60/127887
; PRIOR FILING DATE: 1999-04-05
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; PRIOR APPLICATION NUMBER: 60/131022
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; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/149320
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/149638
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/151733
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; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 60/169445
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169835
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Query Match 98.8%; Score 1048; DB 14; Length 667;  
 Best Local Similarity 99.0%; Fred. No. 7.3e-95;  
 Matches 196; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy	2	SQPAGNOTSPGATEDYSYGSWYTIDEPOGGGXELQPEGEVPSCTSIPPGLYHACLASLSIL	61
Db	3	SQPAGNOTSPGATEDYSYGSWYTIDEPOGGGEELQPEGEVPSCTSIPPGLYHACLASLSIL	62
Qy	62	VLLLAMLVRRQLWPDCYTRGPGLPSPVDFLAGDRPRAVPAAVFMVLSSLLLPDED	121
Db	63	VLLLAMLVRRQLWPDCYTRGPGLPSPVDFLAGDRPRAVPAAVFMVLSSLLLPDED	122
Qy	122	ALPFLTLASAPSQDGKTEAPRGAWKILGFHYAALYPLAACATAGHTAAHLIGSTLSWA	181
Db	123	ALPFLTLASAPSQDGKCTEAPRGAWKILGFYYAALYPLAACATAGHTAAHLIGSTLSWA	182
Qy	182	HLGVQQWORAECFQYPKI 199	
Db	183	HLGVQQWORAECFQYPKI 200	

Copyright	GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.	Minimum DB seq length: 0 Maximum DB seq length: 2000000000	283416	
run on:	February 8, 2005, 13:29:35 ; Search time 19.3683 Seconds (without alignments) 988.580 Million cell updates/sec			
title:	US-09-816-653A-2			
perfect score:	1061			
sequence:	1 MSQPAGNOTSPGATEDSYG.....WAHLGVQVWQRAECEQVPKI 199			
scoring table:	BLOSUM62	Gapop 10.0 , Gapext 0.5		
searched:	283416 seqs, 96216763 residues			
total number of hits satisfying chosen parameters:	283416			
post-processing:	Minimum Match 0% Maximum Match 100%			
database :	PIR 79: 1: Pirl: * 2: pir2: * 3: pir3: * 4: pir4: *			
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.				
SUMMARIES				
Result No.	Score	Query Match Length	DB ID	Description
1	86.5	8.2	757	2 F87304
2	85.5	8.1	380	2 S35785
3	84.5	8.0	335	2 T36304
4	84	7.9	913	2 A48280
5	83	7.8	1172	2 T36053
6	80.5	7.6	385	2 E83506
7	80	7.5	433	1 VHVUPH
8	80	7.5	876	2 A49508
9	79.5	7.5	921	2 G02326
10	79.5	7.5	249	1 S47153
11	79.5	7.5	577	2 S77715
12	79	7.4	463	2 C47301
13	79	7.4	910	2 A53137
14	78.5	7.4	477	2 H83588
15	78.5	7.4	532	2 JC5412
16	78.5	7.4	3519	2 S43048
17	78	7.4	419	2 JQ2254
18	77.5	7.3	579	2 S35237
19	77	7.3	521	2 AF3287
20	76.5	7.2	221	2 B48266
21	76	7.2	394	2 A55045
22	76	7.2	666	2 F83340
23	76	7.2	709	2 F75584
24	75.5	7.1	400	2 T35334
25	75.5	7.1	454	2 T10525
26	75.5	7.1	655	1 A42420
27	75	7.1	211	2 T09498
28	75	7.1	230	2 S72714
29	75	7.1	668	2 T01685



Query Match 7.6%; Score 80.5; DB 2; Length 385;  
 Best Local Similarity 29.0%; Pred. No. 6.6;  
 Matches 54; Conservative 14; Mismatches 57; Indels 61; Gaps 13;

Qy 27 PQGGXELQPEGEVPSCHTSIPPGLYHACLASLISILVLLMLVRRQLWPDTCVRGRP-- 84  
 Db 148 PLGGQNLADLGHP-----AVFATLAVLLASLAALVV---PAWPET---RPLL 189

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 85 -GLPSPVDF---LAGDRP---RAVPAAVFVMTLSSLCL---LLPDEDALPF---LT 127  
 Db 190 AGTPEPATLAIFRVLADRPLQTTRALLYAVLNVLVFFSYAAGPPMVGDLPGLGFwigLA 249

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 128 LASAPSQDG--KTEAPRGAWKI----LGLFHYAALYYPLAACATAAGHTAAHLLGST--- 177  
 Db 250 IAIAGSLGALLNRRLPR-TWN SARRVRLGL-----ALAAGATAQTLAAVGYA 297

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 178 -LSWA 181  
 Db 298 EGLIWA 303

RESULT 7  
 VHVTUPH nucleocapsid protein N - Prospect Hill virus (strain PHV-1)  
 N;Alternate names: nucleoprotein N  
 C;Species: Prospect Hill virus  
 C;Date: 30-Jun-1991 #sequence\_revision 30-Jun-1991 #text\_change 09-Jul-2004  
 C;Accession: A34681  
 R;Parrington, M.A.; Kang, C.Y.

Virology 175, 167-175, 1990  
 A;Title: Nucleotide sequence analysis of the S genomic segment of Prospect Hill virus:  
 A;Reference number: A34681; MUID:90177212; PMID:2309440  
 A;Accession: A34681  
 A;Molecule type: Genomic RNA  
 A;Residues: 1-433 <PAR>  
 A;Cross-references: UNIPROT:P22047  
 C;Genetics:

A;Gene: N  
 A;Map position: segment S  
 C;Superfamily: Hantaan virus nucleocapsid protein  
 C;Keywords: nucleocapsid; nucleoprotein

Query Match 7.5%; Score 80; DB 1; Length 433;  
 Best Local Similarity 24.1%; Pred. No. 8.4;  
 Matches 35; Conservative 21; Mismatches 55; Indels 34; Gaps 6;

Qy 23 YIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLISILVLL---LAMLIRRQLWPD 78  
 Db 178 YVSMPTAQSTMKAEELTPGFRFTIVCGFLPAQIMARNIISPVMGVIGFAFFYKD--WAD 234

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 79 CVRG-----RPGLPS-PVDFLAGDRPRAVPAAVFVMTLSSLCL---LPDE 120  
 Db 235 KVKAFLDQKCPFLKAEPRPQQPAGEAEFLSSIR-----AYLMNROQAVLDETHLPDI 285

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 121 DALPFLTLASAPSQDGKTEAPRGAW 145  
 Db 286 DALVELAASGDPPTLPDSLLENPHAAW 310

RESULT 8  
 A49508 protein-tyrosine kinase (EC 2.7.1.112) trkE precursor - human  
 C;Species: Homo sapiens (man)  
 C;Date: 10-Nov-1995 #sequence\_revision 10-Nov-1995 #text\_change 09-Jul-2004  
 C;Accession: A49508; I38358; S37402  
 R;Di Marco, E.; Cutuli, N.; Guerra, L.; Cancedda, R.; De Luca, M.  
 J. Biol. Chem. 268, 24290-24295, 1993  
 A;Title: Molecular cloning of trkE, a novel trk-related putative tyrosine kinase receptor  
 A;Reference number: A49508; MUID:94043265; PMID:8226977  
 A;Accession: A49508  
 A;Status: Preliminary  
 A;Molecule type: mRNA  
 A;Residues: 1-876 <DIA>

RESULT 10  
 S47153  
 type IV prephilin peptidase (EC 3.4.99.-) BfpP - Escherichia coli

A;Cross-references: UNIPROT:O08345; EMBL:X74979; MND:g400462; PIDN:CAA52915.1; PID:g40044  
 C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-ter  
 C;Keywords: ATP; phosphotransferase; tyrosine-specific protein kinase  
 F;30-185/Domain: discoidin I amino-terminal homology <DN1>  
 F;571-875/Domain: protein kinase homology <DN1>  
 F;579-587/Region: protein kinase ATP-binding motif

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 7 NOTSPGATEDYSGSWYIDEPO----GGXXELQPEGEVPSCHT-SIPPGLYHACLASLISIL 61  
 Db 370 NNSSPALGGTFPAPWWPPGPPPTNFSSLEPRGQQPVAKAEGSPTAILIGCLVARIIL 429

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 62 VLIJLIALMLV-----RRQQLWFD-----CVRGRPGLPSPVDFLAGDR 97  
 Db 430 LLLIILALMLWRLLHWRLLSKAERRVLEELTVHLSVPGDTILINNNRGPREPFPY-QEPR 488

Query Match 7.5%; Score 80; DB 2; Length 876;  
 Best Local Similarity 20.6%; Pred. No. 17;  
 Matches 42; Conservative 26; Mismatches 74; Indels 62; Gaps 9;

Qy 98 PRAVPAAVFVMLLSSLCL-----LLPDEDALPFLTLASAPSQDGKTEAPRGAWKI 147  
 Db 489 PRGNPPH-----SAPCVPNGSAYSGDMPEPKGAPLL---PPPPQN----- 527

RESULT 9  
 G02326 transcription factor NFAT1 isoform B - human  
 C;Species: Homo sapiens (man)  
 C;Date: 21-Dec-1996 #sequence\_revision 06-Jun-1997 #text\_change 09-Jul-2004  
 C;Accession: G02326  
 R;Luo, C.  
 submitted to the EMBL Data Library, December 1995  
 A;Reference number: H01056  
 A;Accession: G02326  
 A;Status: preliminary; translated from GB/EMBL/DBJ  
 A;Molecule type: mRNA  
 A;Residues: 1-921 <LU0>  
 A;Cross-references: UNIPROT:Q13469; EMBL:U43341; NID:g1353773; PIDN: AAC50886.1; PID:g13

C;Genetics:  
 A;Gene: NFAT1

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 3 QPAGNQNTSPGATEDYSGSWYIDEPOQGX-----ELOPEGEV-PSCHTSIPPGLYHAC 54  
 Db 240 RPASRSSPGAKRRHSCAEALVALPPGASQRSRSPSPQSSHVAQDQHGS-PAG--YPP 296

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 55 LASLISLVLILLAMLVRR-----RQLW-----PDCVRGRP--GLP----SPVDFLA-- 94  
 Db 297 VAGSAVIMDALNSLATDSPCGIPPKMWKTSPDPSPVSAAPSKAGLPRHIIYPAVEFLGPCE 356

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 95 -GDRPRAVPAAVFMVLLSILCLL.PDDEDALPFLTL---ASAP-----SDG----- 136  
 Db 357 QGERRNSAPESIILVLPPTWPKLVP--AIPICSIPTVASTLPPLEWLSSQSGYELRIE 413

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 137 -----KTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLIGSTLSWAHLGV 185  
 Db 414 VQPKPHRAHYETEGSRGAVK-----APTGGHPVQLHGY-MENKPLGL 456

Query Match 7.5%; Score 80; DB 2; Length 921;  
 Best Local Similarity 23.5%; Pred. No. 18;  
 Matches 57; Conservative 30; Mismatches 76; Indels 80; Gaps 15;

Qy 186 QVW 188  
 Db 457 QIF 459

N; Contains: type IV pilin N-methyltransferase (EC 2.1.1.-)

C; Species: Escherichia coli

C; Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 09-Jul-2004

C; Accession: S47153 ; S70974

R; Zhang, H.; Lory, S.; Donnenberg, M.S.

A; Description: A plasmid encoded preplin peptidase from enteropathogenic Escherichia coli

A; Reference number: S47153

A; Accession: S47153

A; Molecule type: DNA

A; Residues: 1-249 <ZHA>

A; Cross-references: UNIPROT:Q57382; EMBL:Z34464; PIDN:CAA84229.1; PMID:g4993

R; Stone, K.D.; Zhang, H.Z.; Carlson, L.K.; Donnenberg, M.S.

Mol; Microbiol. 20, 325-337, 1996

A; Title: A cluster of fourteen genes from enteropathogenic Escherichia coli is sufficient

A; Reference number: S70966; MUID:96310370; PMID:8733231

A; Accession: S70974

A; Status: preliminary; nucleic acid sequence not shown; translation not shown

A; Molecule type: DNA

A; Residues: 1-249 <STO>

A; Cross-references: EMBL:Z68186; PIDN:CAA923349; PMID:g11223408

A; Note: the nucleotide sequence was submitted to the EMBL Data Library, December 1995

C; Genetics:

A; Gene: bfpP

C; Superfamily: type IV preplin peptidase

C; Keywords: hydrolase; methyltransferase; S-adenosylmethionine

Query Match 7.5%; Score 79.5; DB 1; Length 249;

Best Local Similarity 25.8%; Pred. No. 5.2;

Matches 41; Conservative 11; Mismatches 62; Indels 45; Gaps 6;

Db 60 WYLLIPVLGYFL-CRGECCGCHAKVPVRYPLTEFIGCVCSVIIIFFLGDRLYDAVIVSLL 118

Qy 22 WYIDEPOGGXELQPEGEVPSCTSIP-----PGLYHACLASLS 59

Db 60 WYLLIPVLGYFL-CRGECCGCHAKVPVRYPLTEFIGCVCSVIIIFFLGDRLYDAVIVSLL 118

Qy 60 IIVLLLAMLVRRLQRQLMPDCVRG-----RPGLPSPVDFLAGDRPRAVPAVMVLL 111

Db 119 FLCLYFLALIDLRENWLPACTYPLFWAGMITPGFASSDDDKIFG----AFTGFLIMYISM 174

Qy 112 SLCLLILPDDEALPFLTLASAPSQDGKTEAPRGAWKLGL 150

Db 175 KLVSAALKEDVFAGGDIALATA-----AGAW--IGI 203

RESULT 11

S7715 cytochrome c-type biogenesis protein homolog - evening primrose mitochondrial

C; Species: mitochondrial Oenothera lamaricae (evening primrose)

C; Date: 06-Sep-1996 #sequence\_revision 09-May-1997 #text\_change 24-Sep-1999

C; Accession: S77715 ; S35238; S77730

R; Schuster, W.; Combettes, B.; Flieger, K.; Brennicke, A.

Mol; Gen. Genet. 239, 49-57, 1993

A; Title: A plant mitochondrial gene encodes a protein involved in cytochrome c biogenesis

A; Reference number: S35237; MUID:93288005; PMID:8389979

A; Accession: S77715

A; Molecule type: mRNA

A; Residues: 1-577 <SCH>

A; Cross-references: EMBL:X69555

A; Note: the source is designated as Oenothera berteriana

A; Note: 10-Ser, 13-Leu, 33-Leu, 46-Leu, 48-Cys, 51-Ser, 86-Trp, 88-Leu, 106-Val, 112-Tyr

-Cys, 259-Leu, 263-Leu, 268-Leu, 306-Trp, 325-Phe, 368-Leu, 424-Trp, 433-Leu, 439-Tyr, 4

A; Note: this represents all RNA editing sites; individual clones show partial RNA editin

A; Accession: S35238

A; Molecule type: DNA

A; Residues: 1-9, 'P', 11-12, 'P', 14-32, 'P', 34-45, 'S', 47, 'R', 49-50, 'P', 52-85, 'R', 87, 'P', 89-1

, 'P', 237-238, 'S', 240-243, 'P', 245-246, 'R', 248-251, 'R', 253-258, 'S', 260-262, 'P', 264-267, 'S', 2-46, 'R', 468-480, 'S', 482-487, 'L', 489-577 <SCF>

A; Cross-references: EMBL:X69555; NID:914026; PIDN:CAA49287.1; PMID:g14027

R; Schuster, W.

A; Submitted to the EMBL Data Library, February 1992

A; Reference number: S77730

A; Accession: S77730

A; Molecule type: DNA

A; Molecule type: DNA  
A; Residues: 1-910 <RES>  
A; Cross-references: UNIPROT:Q63474; GB:L26525; NID:g432480; PIDN:AAA21089.1; PID:g432481  
C; Genetics:  
A; Gene: Ptk-3  
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discoidin I amino-terminal domain; discoidin I homology <KIN>  
F; 31-186/Domain: discoidin I amino-terminal homology <KIN>  
F; 605-909/Domain: protein kinase ATP-binding motif  
F; 613-621/Region: protein kinase ATP-binding motif

Query Match 7.4%; Score 79; DB 2; Length 910;  
Best Local Similarity 22.1%; Pred. No. 22;  
Matches 36; Conservative 23; Mismatches 70; Indels 34; Gaps 7;

Qy 13 ATEDYSYGSWYIDEHQ----GGXELQPEGEVPSCHT-SIPIGLYHACLASLISIVLLIA 67  
Db 373 SSDTFFPAPWWPPGPPPTNFSLELEPRQQPVAKAEGSPTAILIGCLVAILLLLLIA 432

Qy 68 MLV----RRQLWPD-----CVRGRPGLPSPVDFLAGDRPRAVPA 103  
Db 433 LMLWRLLHWRRLLSKAERRVLEELTVHLLSVPGDTILNNRGPREPPTY-QEPRPRGTPT 491

Qy 104 AVFVMVLLSSLCLLLPDED-ALPFTLTASAPSQDGKTEAPRGAW 145  
Db 492 HSAPCVPNGSALLSNPAYRLLLATYARRPRGPG--PPTPAW 531

RESULT 14  
H83588 probable MFS transporter PA0458 [imported] - *Pseudomonas aeruginosa* (strain PA01)  
C; Species: *Pseudomonas aeruginosa*  
C; Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 09-Jul-2004  
C; Accession: H83588  
R; Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Bradman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, J.; Lory, S.; Olson, M.V.  
Nature 406, 959-964, 2000  
A; Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunistic pathogen  
A; Reference number: A82950; MUID:20437337; PMID:10984043  
A; Status: preliminary  
A; Molecule type: DNA  
A; Residues: 1-477 <STO>  
A; Cross-references: UNIPROT:Q9I660; GB:AE004483; GB:AE004091; NID:g9946313; PIDN:AAG0384  
A; Experimental source: strain PA01  
C; Genetics:  
A; Gene: PA0458  
C; Superfamily: multidrug-efflux transporter

Query Match 7.4%; Score 78.5; DB 2; Length 477;  
Best Local Similarity 26.5%; Pred. No. 13;  
Matches 54; Conservative 16; Mismatches 63; Indels 71; Gaps 11;

Qy 19 YGSWY----IDEPQG----GXELQPE--GEVPSCHTSIPIGLYHACLASLSI---- 60  
Db 164 YASWHWIFLNLYPGLLGCLVAMKLMPLRSPVPSRFDSIGFLFGGSMVLISIALEGIG 223

Qy 61 -----LVLLLLAMLVRRQLWPDCVR-GRPGLPSPVDFLAGDRPRAVPAAVFMV-LI 110  
Db 224 ELHLSHLRVLLLIGGLVLLTAYWLRALRIDKPLFP-----PSLFKARTFAVGIL 273

Qy 111 SSLCLLIPDEDALPFLT----LASAPSQDGKTEAPRG-----AWKILGLFHYA 154  
Db 274 GNLFARL-GSGGALPFLTPLLLQVGLGYPSTAGMTMIPALFAMYAKPMAKPLLDFFGYR 332

Qy 155 ALYYPLAACATAGHTAAHLLGSTL 178  
Db 333 KL-----LVGNTL 340

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GenCore version 5.1.6  
(c) 1993 - 2005 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: February 8, 2005, 13:21:20 ; Search time 87.3473 Seconds  
(without alignments)  
1166.650 Million cell updates/sec

Title: US-09-816-653A-2  
Perfect score: 1061  
Sequence: 1 MSQPAGNQTPGATEDYSYG.....WAHLGVQVWQRRAECPCQVVKI 199

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt\_03:+  
1: uniprot\_sprot:  
2: uniprot\_trembl:  
\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	1048	98.8	667	2	Q8TB21		Q8tb21 homo sapien
2	1048	98.8	667	2	Q9BX79		Q9bx79 homo sapien
3	1048	98.8	708	2	Q7Z3U9		Q7z3u9 homo sapien
4	986.5	93.0	658	2	Q9BX78		Q9bx78 homo sapien
5	745	70.2	159	2	Q6PJF8		Q6pjf8 homo sapien
6	697	65.7	670	2	Q70491		Q70491 mus musculus
7	697	65.7	670	2	Q6DIA8		Q6dia8 mus musculus
8	488	46.0	560	2	Q7L9G1		Q7l9g1 homo sapien
9	427	40.2	137	2	Q8C442		Q8c442 mus musculus
10	337	31.8	238	2	Q6DGZ6		Q6dgz6 brachydanio
11	99.5	9.4	293	2	Q7WE26		Q7we26 bordetella
12	96.5	9.1	293	2	Q7W325		Q7w325 bordetella
13	96.5	9.1	441	2	Q6ZN9		Q6znr9 homo sapien
14	90.5	8.5	840	2	Q7NIK1		Q7nik1 gloeobacter
15	90.5	8.5	2527	2	Q7W6G2		Q7w6g2 bordetella
16	90	8.5	263	1	Y8K6_ENCCU		Q8sui0 encephalito
17	89.5	8.4	750	2	Q9YQ39		Q9yq39 suid herpes
18	88.5	8.3	435	2	Q854B3		Q854b3 mycobacteri
19	87.5	8.2	318	2	Q7NTK1		Q7ntk1 chromobacter
20	87.5	8.2	336	2	Q94LD3		Q94ld3 oryza sativa
21	87.5	8.2	413	2	Q8XRV5		Q8xrv5 ralstonia s
22	87	8.2	848	2	Q84SK5		Q84sk5 oryza sativa
23	86.5	8.2	757	2	Q9AAZ5		Q9aaaz5 caulobacter
24	85.5	8.1	380	1	VGLI_BHV1S		Q08102 bovine herp
25	85.5	8.1	569	2	Q8Y1X8		Q8y1x8 ralstonia s
26	85	8.0	398	2	Q73UR0		Q73ur0 streptomyce
27	84.5	8.0	335	1	TRD2_STRCO		Q39505 bovine herp
28	84.5	8.0	382	2	Q76PF0		Q76pf0 bovine herp
29	84.5	8.0	730	2	Q93QX7		Q93qx7 corynebacte
30	84.5	8.0	2527	2	Q7WID3		Q7wid3 bordetella

Result No.	Score	Query	Match	Length	DB	ID	Description
1	1048	98.8	667	2	Q8TB21		Q8tb21 homo sapien
2	1048	98.8	667	2	Q9BX79		Q9bx79 homo sapien
3	1048	98.8	708	2	Q7Z3U9		Q7z3u9 homo sapien
4	986.5	93.0	658	2	Q9BX78		Q9bx78 homo sapien
5	745	70.2	159	2	Q6PJF8		Q6pjf8 homo sapien
6	697	65.7	670	2	Q70491		Q70491 mus musculus
7	697	65.7	670	2	Q6DIA8		Q6dia8 mus musculus
8	488	46.0	560	2	Q7L9G1		Q7l9g1 homo sapien
9	427	40.2	137	2	Q8C442		Q8c442 mus musculus
10	337	31.8	238	2	Q6DGZ6		Q6dgz6 brachydanio
11	99.5	9.4	293	2	Q7WE26		Q7we26 bordetella
12	96.5	9.1	293	2	Q7W325		Q7w325 bordetella
13	96.5	9.1	441	2	Q6ZN9		Q6znr9 homo sapien
14	90.5	8.5	840	2	Q7NIK1		Q7nik1 gloeobacter
15	90.5	8.5	2527	2	Q7W6G2		Q7w6g2 bordetella
16	90	8.5	263	1	Y8K6_ENCCU		Q8sui0 encephalito
17	89.5	8.4	750	2	Q9YQ39		Q9yq39 suid herpes
18	88.5	8.3	435	2	Q854B3		Q854b3 mycobacteri
19	87.5	8.2	318	2	Q7NTK1		Q7ntk1 chromobacter
20	87.5	8.2	336	2	Q94LD3		Q94ld3 oryza sativa
21	87.5	8.2	413	2	Q8XRV5		Q8xrv5 ralstonia s
22	87	8.2	848	2	Q84SK5		Q84sk5 oryza sativa
23	86.5	8.2	757	2	Q9AAZ5		Q9aaaz5 caulobacter
24	85.5	8.1	380	1	VGLI_BHV1S		Q08102 bovine herp
25	85.5	8.1	569	2	Q8Y1X8		Q8y1x8 ralstonia s
26	85	8.0	398	2	Q73UR0		Q73ur0 streptomyce
27	84.5	8.0	335	1	TRD2_STRCO		Q39505 bovine herp
28	84.5	8.0	382	2	Q76PF0		Q76pf0 bovine herp
29	84.5	8.0	730	2	Q93QX7		Q93qx7 corynebacte
30	84.5	8.0	2527	2	Q7WID3		Q7wid3 bordetella

RESULTS 1

ID	Q8TB21	PRELIMINARY;	PRT;	667 AA.
AC	Q8TB21;			
DT	01-JUN-2002 (TREMBLre1.	21,	Created)	
DT	01-JUN-2002 (TREMBLre1.	21,	Last sequence update)	
DT	01-OCT-2002 (TREMBLre1.	22,	Last annotation update)	
DE	Stimulated by retinoic acid gene 6.			
GN	Name=PLJ12541;			
OS	Homo sapiens (Human).			
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TAXID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Brain;			
RX	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;			
RA	Krausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,			
RA	Shemesh C.M., Schuler G.D.,			
RA	Strausberg R.D., Feingold E.A., Wagner J., Bhat N.K.,			
RA	Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F.,			
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,			
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,			
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,			
RA	Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,			
RA	Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahay S.J.,			
RA	Rosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,			
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,			
RA	Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,			
RA	Fahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,			
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA	Rodriguez A.C., Grimwood J., Schnitzel J., Myers R.M., Butterfield Y.S.,			
RA	Krzywinski M.I., Skalska U., Jones S.J., Marra M.A.,			
RA	RT "Generation and initial analysis of more than 15,000 full-length human			
RT	and mouse cDNA sequences.";			
RL	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Brain;			
RA	Strausberg R.; Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.			
RL	DR EMBL; BC025256; AAH25256.1; -.			
SQ	SEQUENCE 667 AA; 73532 MW; 120685F4635CB05 CRC64;			
Qy	Query Match 98.8%; Score 1048; DB 2; Length 667;			
	Best-Local Similarity 99.0%; Pred. No. 6.9e-88; Mismatches 1; Indels 0; Gaps 0;			
	Matches 196;			
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Db	3 SQPAGNOTSPGATEDYSGGSWYDEPGGEEQLPGEVPSCHTSIPPGLYHACLASLSIL 62			
Qy	62 VLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAVMVLLSLCLLPLPD 121			

Sequence Similarity Report									
Last updated: 2023-10-01 16:00:00 UTC									
Db	63	VLLLAMLVRRRQLWPDCYRGPGLPSPVDFLAGDRPRAVPAAVFMVLLSILCLLPDED	122						
Qy	122	ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA	181						
Db	123	ALPFLTLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAACATAGHTAAHLLGSTLSWA	182						
RESULT 2									
Qy	182	HLGVQQWQRAECPQVPKI	199	PRELIMINARY;	PRT;	667 AA.			
Db	183	HLGVQQWQRAECPQVPKI	200						
SEQUENCE FROM N.A.									
Qy	Q9BX79	Q9BX79; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Created)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
Qy	Q9BX79	Q9BX79; Q9H9U8;	05-JUL-2004 (TREMBLrel. 27, Last annotation update)	DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)	DE			
GN	STR6	isoform 1.		GN	ORFNames=UNQ3126;				
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Szeto W., Jiang W., Tice D.A., Rubinfield B., Hollingshead P.G., Fong S.E., Dugger D.L., Pham T.A., Wong T.A., Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B., Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P., Pennica D.;	RA	RA	RA	RA	RA	RA	RA	RA	RA
Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P.,	RA								
"Overexpression of the retinoic acid-responsive gene Stra6 in human cancers and its synergistic induction by Wnt-1 and retinoic acid."	RA								
Cancer Res. 0:0-0(2001).	RL								
[2]				[2]					
SEQUENCE FROM N.A.									
Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J., Chen J., Chow B., Chuai C., Currell B., Deuel B., Dowd P., Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S., Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J., Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J., Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A., Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D., Yi S., Yu G., Yuan J., Zhang M., Godowski P.,	RA	RA	RA	RA	RA	RA	RA	RA	RA
"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment."	RA								
Genome Res. 13:2265-2270 (2003).	RL								
EMBL; AF352728; AAK30289.1;	DR								
EMBL; AY359089; AAQ89447.1;	DR								
SEQUENCE 667 AA;	SQ	73502 MW;	D20840A46998BA2E	CRC64;					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Created)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Szeto W., Jiang W., Tice D.A., Rubinfield B., Hollingshead P.G., Fong S.E., Dugger D.L., Pham T.A., Yansura D.G., Wong T.A., Grimaldi J.C., Corpuz R.T., Singh J.S., Frantz G.D., Devaux B., Crowley C.W., Schwall R.H., Eberhard D.A., Rastelli L., Polakis P., Pennica D.;	RA	RA	RA	RA	RA	RA	RA	RA	RA
"Overexpression of the retinoic acid-responsive gene Stra6 in human cancers and its synergistic induction by Wnt-1 and retinoic acid."	RA								
Cancer Res. 0:0-0(2001).	RL								
[2]				[2]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2004 (TREMBLrel. 27, Last annotation update)	DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Created)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
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[1]				[1]					
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Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
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[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
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Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					
SEQUENCE FROM N.A.									
Qy	Q9BX78	Q9BX78; Q9H9U8;	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)	DE			
OS	Homo sapiens (Human).			OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
NCBI_TAXID	9606;			NCBI_TAXID	9606;				
[1]				[1]					

RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;	"and mouse cDNA sequences.";	
RA	Clark H.F., Gurney A.L., Abaya E., Baker R., Baldwin D., Brush J., Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P., Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S., Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J., Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J., Sesaguri S., Simmons L., Sing J., Smith V., Stinson J., Vagts A., Vandlen R., Watanabe C., Wienand D., Woods K., Xie M.H., Yansura D., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I., Godowski P.;	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).	
RT	"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.";		
RT	Genome Res. 13:2265-2270 (2003).		
RL	DRB; AF352729; AAK30290.1; -.		
DR	EMBL; AY358748; AAQ89108.1; -.		
SQ	SEQUENCE 658 AA; 72582 MW; 5405281727F647DD CRC64;		
Query Match	Score 93.0%; Best Local Similarity 94.4%; Matches 187; Conservative	Score 986.5%; Best Local Similarity 94.4%; Matches 1; Mismatches 1;	Score 745; Best Local Similarity 99.3%; Matches 141; Conservative
Qy	2 SQPAGNOTSPGATEDYSQGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61	2 SQPAGNOTSPGATEDYSQGSWYIDEPQGGXELQPEGEVPSCHTSIPPGLYHACLASLSIL 61	Score 745; DB 2; Length 159;
Db	3 SQPAGNOTSPGATEDYSQGSWYIDEPQGGEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62	3 SQPAGNOTSPGATEDYSQGSWYIDEPQGGEELQPEGEVPSCHTSIPPGLYHACLASLSIL 62	Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Query Match	Score 93.0%; Best Local Similarity 94.4%; Matches 187; Conservative	Score 986.5%; Best Local Similarity 94.4%; Matches 1; Mismatches 1;	Score 70.2%; Best Local Similarity 99.3%; Matches 1; Mismatches 0; Indels 0; Gaps 0;
Qy	62 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 121	62 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 121	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Db	63 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 113	63 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 122	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Query Match	Score 93.0%; Best Local Similarity 94.4%; Matches 187; Conservative	Score 986.5%; Best Local Similarity 94.4%; Matches 1; Mismatches 1;	Score 70.2%; Best Local Similarity 99.3%; Matches 1; Mismatches 0; Indels 0; Gaps 0;
Qy	62 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 121	62 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 121	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Db	63 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 113	63 VLLLLMLVRRQLWPDCVRGRPGLPSPVDFLAGDRPRAVPAAVFMVLLSICLCLLPDED 113	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Query Match	Score 93.0%; Best Local Similarity 94.4%; Matches 187; Conservative	Score 986.5%; Best Local Similarity 94.4%; Matches 1; Mismatches 1;	Score 70.2%; Best Local Similarity 99.3%; Matches 1; Mismatches 0; Indels 0; Gaps 0;
Qy	122 ALPFLTLASAPSQDGKTEAPRGR 143	122 ALPFLTLASAPSQDGKTEAPRGR 143	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Db	123 ALPFLTLASAPSQDGKTEAPRGR 144	123 ALPFLTLASAPSQDGKTEAPRGR 144	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RESULT 5		RESULT 6	
Q6PJF8	PRELIMINARY; ID Q6PJF8; AC Q6PJF8; DT 05-JUL-2004 (TREMBLrel. 27, Created) DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update) DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)	PRELIMINARY; ID 070491; AC 070491; DT 01-AUG-1998 (TREMBLrel. 07, Created) DT 01-AUG-1998 (TREMBLrel. 07, Last sequence update) DT 01-NOV-1999 (TREMBLrel. 12, Last annotation update)	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
DB	114 ALPFLTLASAPSQDGKTEAPRGAWKIGLFLYYAALYYPLAACATAAGHTAAHLLGSTLSSWA 181	114 ALPFLTLASAPSQDGKTEAPRGAWKIGLFLYYAALYYPLAACATAAGHTAAHLLGSTLSSWA 173	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Qy	182 HLGQVWQWQRAECQPQVPKI 199	182 HLGQVWQWQRAECQPQVPKI 199	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Db	174 HLGQVWQWQRAECQPQVPKI 191	174 HLGQVWQWQRAECQPQVPKI 191	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RESULT 5		RESULT 7	
Q6PJF8	PRELIMINARY; ID Q6PJF8; AC Q6PJF8; DT 05-JUL-2004 (TREMBLrel. 27, Created) DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update) DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)	PRELIMINARY; ID 070491; AC 070491; DT 01-AUG-1998 (TREMBLrel. 07, Created) DT 01-AUG-1998 (TREMBLrel. 07, Last sequence update) DT 01-NOV-1999 (TREMBLrel. 12, Last annotation update)	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
DB	Homo sapiens (Human)	Homo sapiens (Human)	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Qy	DE FLJ12541 protein.	OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Etheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606;	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
Db	OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Etheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606;	OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Etheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606;	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RN	SEQUENCE FROM N.A.	SEQUENCE FROM N.A.	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RP	SEQUENCE=MUSCLE;	SEQUENCE=MUSCLE;	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RC	TISSUE=MUSCLE;	TISSUE=MUSCLE;	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RX	MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;	MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	Strasberg R.B., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Ronald M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loqueland N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimaldi C., Grimm J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smailus D.E., Scheraga A., Schein J.E., Jones S.J., Marra M.A., Marra M.A., Smailus D.E., Bouffard G.G., RT "Generation and initial analysis of more than 15,000 full-length human	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;	
RA	Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.	Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	SEQUENCE FROM N.A.	SEQUENCE FROM N.A.	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	[3]	SEQUENCE FROM N.A.	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";	Score 70.2%; Pred. No. 1.2e-60; 0; Mismatches 1; Indels 0; Gaps 0;
RA	RT Bouillet P., Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.; "Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new		



AC Q8C442; DR MGD; MGI:107742; Stra6.  
DT 01-MAR-2003 (TREMBLrel. 23, Created)  
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)  
DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)  
DE Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, clone:C630015F10 product:stimulated by retinoic acid gene 6, full insert sequence.  
GN Name=Stra6;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OC NCBI\_TaxID=10090;  
RN RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;  
RA Carninci P.; Hayashizaki Y.;  
RT "High-efficiency full-length cDNA cloning.";  
RL Meth. Enzymol. 303:19-44(1999).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;  
RA RIKEN FANTOM Consortium;  
RT "Functional annotation of a full-length mouse cDNA collection.";  
RL Nature 409:685-690(2001).  
RN RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RA The FANTOM Consortium, the RIKEN Genome Exploration Research Group Phase I & II Team;  
RA "Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";  
RT Nature 420:563-573(2002).  
RN RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;  
RA Carninci P.; Shibata Y.; Hayatsu N.; Sugahara Y.; Shibata K.; Itoh M.,  
RA Konno H.; Okazaki Y.; Muramatsu M.; Hayashizaki Y.;  
RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";  
RT Genome Res. 10:1617-1630(2000).  
RN RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;  
RA Shibata K.; Itoh M.; Aizawa K.; Nagaoka S.; Sasaki N.; Carninci P.,  
RA Konno H.; Akiyama J.; Nishi K.; Kitsunai T.; Tashiro H.; Itoh M.,  
RA Sumi N.; Ishii Y.; Nakamura S.; Hazama M.; Nishine T.; Harada A.,  
RA Yamamoto R.; Matsumoto H.; Sakaguchi S.; Ikegami T.; Kashiwagi K.,  
RA Fujiwaka S.; Inoue K.; Togawa Y.; Izawa M.; Ohara E.; Watahiki M.,  
RA Yoneda Y.; Ishikawa T.; Ozawa K.; Tanaka T.; Matsuura S.; Kawai J.,  
RA Okazaki Y.; Muramatsu M.; Inoue Y.; Kira A.; Hayashizaki Y.;  
RT "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";  
RT Genome Res. 10:1757-1771(2000).  
RN RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J; TISSUE=Hippocampus;  
RA Adachi J.; Aizawa K.; Akimura T.; Arakawa T.; Bono H.; Carninci P.,  
RA Fukuda S.; Furuno M.; Hanagaki T.; Hara A.; Hashizume W.,  
RA Hayashida K.; Hayatsu N.; Hiramoto K.; Hiraoka T.; Hirozane T.,  
RA Hori F.; Imotani K.; Ishii Y.; Itoh M.; Kagawa I.; Kasukawa T.,  
RA Katoh H.; Kawai J.; Kojima Y.; Kondo S.; Konno H.; Kouda M.; Koya S.,  
RA Kurihara C.; Matsuyama T.; Miyazaki A.; Murata M.; Nakamura M.,  
RA Nishi K.; Nomura K.; Numazaki R.; Ohno M.; Ohsato N.; Okazaki Y.,  
RA Saito R.; Saitoh H.; Sakai C.; Sakai K.; Shinkagawa A.; Shiraki T.; Sogabe Y.; Tagami M.,  
RA Sasaki D.; Shibata K.; Shinagawa A.; Shiraki T.; Takeda Y.; Tanaka T.,  
RA Tomaru A.; Toya T.; Yasunishi A.; Muramatsu M.; Hayashizaki Y.;  
RT Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.  
RN DR BAC38769.1; -

DR MGD; MGI:107742; Stra6.  
DR GO; GO:0016021; C integral to membrane; TAS.  
SQ SEQUENCE . 137 AA; 14573 MW; 27A54C974EF867CC CRC64;  
Query Match 40.2%; Score 427; DB 2; Length 137;  
Best Local Similarity 66.4%; Pred. No. 1.9e-31;  
Matches 85; Conservative 12; Mismatches 29; Indels 2; Gaps 1;

QY 6 GNOTSPGATEDYSGYSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHAACLASLSILVLL 65  
Db 9 GSQRTSSGGTDDYS--SWYIEEPLGAEEVQPEGVIPLCOLTAPPALLHAACLASLSFLVLL 66

QY 66 LAMLVRRQLWPDCCVRGRGLPSPVDFLAGDRPRAAVENVLLSCLLPPDEDALPF 125  
Db 67 LALLYTTRRLWPRCGHRLGGLPSPVDFLAGDLSCTVAAVFVFLFSNLCLLPDENPLFF 126

QY 126 LTLASAPS 133  
Db 127 LNLTAAAS 134

RESULT 10  
Q6DGZ6 ID Q6DGZ6 PRELIMINARY;  
ID Q6DGZ6 AC  
AC DT 25-OCT-2004 (TREMBLrel. 28, Created)  
AC DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)  
AC DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)  
AC DE Hypothetical protein (Fragment).  
AC OS Brachydanio rerio (Zebrafish) (Danio rerio).  
AC OC Bokaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
AC OC Actinopterygii; Neopterygii; Teleostei; Cypriniformes;  
AC OC Cyprinidae; Danio.  
AC NCBI\_TaxID=7955;  
AC [1]  
RN SEQUENCE FROM N.A.  
RC TISSUE=Eye;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L.; Feingold E.A.; Grouse L.H.; Derge J.G.,  
RA Klausner R.D.; Collins F.S.; Wagner L.; Shemesh C.M.; Schuler G.D.,  
RA Altschul S.F.; Zeeberg B.; Buetow K.H.; Schaefer C.F.; Bhat N.K.,  
RA Hopkins R.F.; Jordan H.; Moore T.; Max S.I.; Wang J.; Hsieh F.,  
RA Diatchenko L.; Marusina K.; Farmer A.A.; Rubin G.M.; Hong L.,  
RA Stapleton M.; Soares M.B.; Bonaldo M.F.; Casavant T.L.; Scheetz T.E.,  
RA Brownstein M.J.; Usdin T.B.; Toshiyuki S.; Carninci P., Prange C.,  
RA Raha S.S.; Loquellano N.A.; Peters G.J.; Abramson R.D.; Gunaratne P.H.,  
RA Bosak S.A.; McEwan P.J.; McKernan K.J.; Malek J.A.; Hale S.,  
RA Richards S.; Worley K.C.; Hale S.; Garcia A.M.; Gay L.J.; Hulyk S.W.,  
RA Villalon D.K.; Muzny D.M.; Sodergren E.J.; Lu X.; Gibbs R.A.,  
RA Fahey J.; Helton E.; Ketteman M.; Madan A.; Rodriguez S.; Sanchez A.,  
RA Whiting M.; Madan A.; Young A.C.; Shevchenko Y.; Bouffard G.G.,  
RA Blakesley R.W.; Touchman J.W.; Green E.D.; Dickson M.C.; Rodriguez A.C.; Grimes J.,  
RA Krzywinski M.I.; Skalska U.; Smailus D.E.; Schnurch A.; Schein J.E.,  
RA Jones S.J.; Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).  
RN [2]  
RN SEQUENCE FROM N.A.  
RC TISSUE=Eye;  
RA Strausberg R.;  
RA Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.  
DR EMBL; BC076188; AAH76188.1; -  
KW Hypothetical protein.  
FT NON\_TER 238 AA; 26788 MW; 99E960B5C4FD52B7 CRC64;  
SQ SEQUENCE 238 AA; 26788 MW; 99E960B5C4FD52B7 CRC64;  
Query Match 31.8%; Score 337; DB 2; Length 238;  
Best Local Similarity 37.4%; Pred. No. 6.5e-23;  
Matches 71; Conservative 31; Mismatches 74; Indels 14; Gaps 3;

QY 10 SPGATEDYSGYSWYIDEPQGGXELQPEGEVPSCHTSIIPPGLYHAACLASLSILVLLAMI 69

Db	2 SAETVNNDYSDWY---ENAAPTKAPVEVIPPCCDPTADEGGLPHICIAISLVMVLAIL 58	RESULT 12
Qy	70 VRRQLMPDCVRGRPGLPSPVDFLAGDRPRRAVPAAVFMVLLSSLCLLIPDEDAFPFLTLA 129	Q7W325 PRELIMINARY; PRT; 293 AA.
Db	59 ARRQKL-SDNQRGLTGLLSPVNFDLHTQHGLVPLPFT--- 114	Q7W325 ID Q7W325; AC AC 01-OCT-2003 (TREMBLrel. 25, Created) DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update) DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
Qy	130 SAPSQDGKTEAPRGAWKILGLFHYAAALYYPLAACATAGHTAAAHJGSTLSWAHLGVQVWQ 189	PUTATIVE MEMBRANE PROTEIN DE Putative membrane protein. GN OrderedLocusNames=BPP4224; OS Bordetella parapertussis; OC Bacterium; Proteobacteria; Betaproteobacteria; Burkholderiales; OC Alcaligenaceae; Bordetella; NCBI_TaxID=519;
Db	115 -----KEVANKEFWMILALLYYPALLYPLAACGTTLHNKVGYVILGSILLSWTHFGILVWQ 167	[1]
Qy	190 RAECPQVPKI 199	RN SEQUENCE FROM N.A.
Db	168 KVDCPKTPQI 177	STRAIN=12822 / ATCC BAA-587; MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227; ID Q7WE26 PRELIMINARY; PRT; 293 AA.
AC	AC 01-OCT-2003 (TREMBLrel. 25, Created) DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update) DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)	RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R., Mungall K.L., Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Murphy L.D., Bentley S.D., Mungall K.L., Cerdeno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A., Achtmann M., Atkin R., Baker S., Basham D., Bason N., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinowitzsch E., Rutter S., Sanders M., Saunders D., Seeger K., Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J.; RT "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; RA RT "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; RA RN [1]; RL Nat. Genet. 35:32-40 (2003). RC EMBL; BX640436; CAAE39503.1; RX GO; GO:0016020; C:membrane; IEA. RA InterPro; IPR000620; DUF6. RA DR InterPro; PF00892; DUF6; 1. RA KW Complete proteome. SQ SEQUENCE FROM N.A. STRAIN=RB50 / ATCC BAA-588; MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227; ID Q7WE26 PRELIMINARY; PRT; 293 AA.
AC	AC 01-OCT-2003 (TREMBLrel. 25, Created) DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update) DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)	RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R., Mungall K.L., Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Murphy L.D., Bentley S.D., Mungall K.L., Cerdeno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A., Achtmann M., Atkin R., Baker S., Basham D., Bason N., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinowitzsch E., Rutter S., Sanders M., Saunders D., Seeger K., Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J.; RT "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; RA RT "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; RA RN [1]; RL Nat. Genet. 35:32-40 (2003). RC EMBL; BX640451; CAAE35175.1; RX GO; GO:0016020; C:membrane; IEA. RA InterPro; IPR000620; DUF6. RA DR InterPro; PF00892; DUF6; 1. RA KW Complete proteome. SQ SEQUENCE FROM N.A. STRAIN=RB50 / ATCC BAA-588; MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227; ID Q7WE26 PRELIMINARY; PRT; 293 AA.
Qy	43 HTSIPGLY--HACLAS--LISILVLLLAMLVRRRQLWPDCVRGRPGLPSPVDFLAGDR 97	Query Match 9.4%; Score 99.5%; DB 2; Length 293; Best Local Similarity 27.3%; Pred. No. 0.58; Matches 50; Conservative 17; Mismatches 53; Indels 63; Gaps 9;
Db	2 HVSLALGAQPARHAAAGVAAILLWASLALMTATAQ----- 41	Db 192 ECP 194 Db 150 GGP 152
Qy	98 PRAVPAAFMVLLSSLCLLIPDEDALPFLLTASAPSQDGKTEAPRGAWKIL--GLPHYAA 155	RESULT 13 ID Q6ZNR9 PRELIMINARY; PRT; 441 AA.
Db	42 PFQLLAASFGVAFALSAVLL----- 89	AC Q6ZNR9; DT 05-JUL-2004 (TREMBLrel. 27, Created) DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update) DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
Qy	156 LYV-----PLAAC-----ATAGHTAAH----LLGSTLSSWAHLGVQVWQRA 191	DE Hypothetical protein FLJ27266. OS Homo sapiens (Human).
Db	90 LYFYALGNPVAEASLIAYLWPLLIVLFALRGAGGARRWRALAGAALGFAGTALLVWQRA 149	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. OC NCBI_TaxID=9606; RN RP SEQUENCE FROM N.A.
Qy	192 ECP 194	[1]
Db	150 GGP 152	

RC	TISSUE=Thymus;	DR	Pfam; PF00132; Hexapep; 6.
RA	Oshima A., Takahashi-Fujii A., Tanase T., Imose N., Takeuchi K.,	DR	PROSITE; PS00101; HEXAPEP_TRANSFERASES; 1.
RA	Arita M., Musashino K., Yuuki H., Hara H., Suzuki Y., Hata H.,	KW	Complete proteome.
RA	Nakagawa K., Mizuno S., Morinaga M., Kawamura M., Sugiyama T.,	SEQUENCE	840 AA; 90623 MW; 4C2A59EF60ABD838 CRC64;
RA	Irie R., Otsubo T., Sato H., Nishikawa T., Sugiyama A., Kawakami B.,	Query Match	8.5%; score 90.5; DB 2; Length 840;
RA	Nagai K., Isogai T., Sugano S.; Submitted (JUL-2003) to the EMBL/GenBank/DDJB databases.	Best Local Similarity	26.2%; Pred. No. 12;
RL	EMBL; AK130776; BAC85426.1; -.	Matches	53; Conservative 21; Mismatches 65; Indels 63; Gaps 13;
DR	GO; GO:0005524; F:ATP binding; IEA.	Qy	26 EPQQGKELQPEGEVPSCHTSIPPGLYHACLASLIVLILLAMLVRRRQLWPDCVGRGFG 85
DR	GO; GO:0004674; F:protein serine/threonine kinase activity; IEA.	Db	14 EPRGDMTTEPKPDPSLRLHYLDG----HLWCD-LSPKFQ 60
DR	GO; GO:0004713; F:protein-tyrosine kinase activity; IEA.	Qy	86 LPSPVDFLAGD-RPRAVPA-----VFMVLLSSLCLLPPDEDALPFLTLASAP 132
DR	GO; GO:0004872; F:receptor activity; IEA.	Db	61 LR----LAGEPPMPTWLQAATAWAGYGLFSVGIFMV-LSGYCLMLP-----VV 102
DR	GO; GO:0006468; F:protein amino acid phosphorylation; IEA.	Qy	13.3 SQDGKTEA-----PRGAWKILGLFHYAALYYPLAACATAAGHTAAHLLG-----STLS 179
DR	DR InterPro; IPR011009; Kinase like.	Db	103 RSDGRLRGVTGGLKRRRAWRILPPY-FAALGSLLLVIALVGAGSGQSLGYMWDKAMNGFT 161
DR	DR InterPro; IPR00719; Prot_kinase.	Qy	180 W---AH-LGVQQWQRAECPV 196
DR	DR InterPro; IPR02290; Ser_Thr_pk kinase.	Db	162 WEGVLAHLLLVHNWSEAQASTI 183
DR	DR InterPro; IPR01245; Tyr_pk kinase.		
DR	DR ProDom; PD000001; Prot_kinase; 1.		
DR	DR SMART; SM00220; S_TKC; 1.		
DR	DR SMART; SM00219; TyrKC; 1.		
DR	DR PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.		
KW	Receptor.		
SQ	SEQUENCE 441 AA; 48434 MW; E43EDFC4753A0B4 CRC64;		
Query Match	9.1%; Score 96.5; DB 2; Length 441;	RESULT 15	SEQUENCE FROM N.A.
Best Local Similarity	24.1%; Pred. No. 1.7;	Q7W6G2	STRAIN=12822 / ATCC BAA-587;
Matches	35; Conservative 22; Mismatches 73; Indels 15; Gaps 5;	ID	MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
Qy	7 NOTSPGATEDYSYGSWY1DEPQ----GGKELQPEGEVPSCHT-SI PPGLYHACLASLIL 61	AC	Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R., Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L., Cerdeno-Tarraga A.-M., Baker S., Basham D., Harrison B., Quail M.A., Achtman M., Atkin R., Temple L., James K.D., Harris B., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinkowitzsch E., Rutter S., Sanders M., Saunders D., Seeger K., Sharp S., Simmonds M., Skelton J., Squares R., Stevens K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J.; RT "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; RT Nat. Genet. 35:32-40 (2003).
Db	101 NNSSPALGGTFPPAPWPPGPPPTNFSSLEPRQQVAKAEGSPTAILIGCLVAILL 160	DT	-1- PTM: 4'-phosphopantetheine is transferred from CoA to a specific serine of the protein (By similarity).
Qy	62 VLLLAMLVRR--ROLWPDCVGRGRLPSPVDFLAGDRPRAVPAVFMVLLSSLCLLPP 118	DT	CC -!- SIMILARITY: Contains 1 acyl carrier domain.
Db	161 LLLITAMLWRLLSKVLESHPRTSRSP--GLVGIRPRTPLPVSPMALRCS----P 213	DE	EMBL; BX640432; CAE38242.1; -.
Qy	119 DEDALPFLTLASAPSQDGKTEAPRG 143	GN	HSSP; P39435; 1KAS.
Db	214 IQPTASFWPLTPVPLLEARAPPHPGG 238	OS	DR GO; GO:0000036; F:acyl carrier activity; IEA.
RN		OC	DR GO; GO:0004024; F:alcohol dehydrogenase activity, zinc-dependent; IEA.
RP	SEQUENCE FROM N.A.	OC	DR GO; GO:0048037; F:cofactor binding; IEA.
RC	STRAIN=PCC 7421; MEDLINE=22977040; PubMed=14621292;	OS	DR GO; GO:0016740; F:transferase activity; IEA.
RA	Nakamura Y., Kaneko T., Sato S., Miyashita H., Tsuchiya T., Sasamoto S., Watanabe A., Kawashima K., Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Nakazaki N., Shimpo S., Takeuchi C., Yamada M., Tabata S.; RT "Complete genome structure of Gloeobacter violaceus PCC 7421, a cyanobacterium that lacks thylakoids."; RT DNA Res. 10:137-145 (2003).	RA	DR GO; GO:0008270; F:zinc ion binding; IEA.
RA	RA EMBL; AP006575; BAC90123.1; -.	RA	DR GO; GO:0006633; F:fatty acid biosynthesis; IEA.
DR	DR HSSP; P50870; IMR7.	RA	DR InterPro; IPR003231; Acyl carrier.
DR	DR GO; GO:0016747; F:transferase activity, transferring groups o...; IEA.	DR	DR InterPro; IPR001227; Ac transferase.
DR	DR InterPro; IPR002656; Acyl_transf_3.	DR	DR InterPro; IPR001451; Hexapep transf.
DR	DR InterPro; IPR011004; Trimer_LpxA_like.	DR	DR InterPro; IPR003006; Ig_MHC.
DR	Pfam; PF01757; ACYL_transf_3; 1.	DR	DR InterPro; IPR000794; ketoacyl_synth.
DR	Pfam; PF01590; GAF; 1.		

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DR InterPro; IPR006163; Phosphopanteth_bind.
DR Pfam; PF00698; Acyl_transf_1; 1.
DR Pfam; PF00107; ADH_zinc_N; 1.
DR Pfam; PF00109; ketoacyl_synt; 1.
DR Pfam; PF02801; Ketoacyl_synt_C; 1.
DR Pfam; PF00550; PP-binding; 1.
DR ProDom; PD0000887; Acyl_carrier; 1.
DR PROSITE; PS50075; ACP_DOMAIN; 1.
DR PROSITE; PS00606; B_KETOACYL_SYNTHASE; 1.
DR PROSITE; PS00290; IG_MHC; UNKNOWN 1.
KW Complete proteome; Phosphopantetheine; Transferase.
SEQUENCE 2527 AA; 269583 MW; 599CFAD9E3AE99B5 CRC64;
SQ

```

Query Match 8.5%; Score 90.5; DB 2; Length 2527;  
 Best Local Similarity 29.0%; Pred. No. 36;  
 Matches 51; Conservative 16; Mismatches 66; Indels 43; Gaps 9;

Qy	24 IDEPOGGXELQPEGEVPSCKTSIPEG-----LYHA-----CLASLSI 60
Db	1423 IDEAERLERCPLSVQAIIDHTEPAGRFDLAILHANWPTLDEARQALGHVRHCLAPGGV 1482
Qy	61 LVLLLAMLVRRRQLWPDCVVRGRGLPSPVDFLAGD-RPRAVPAVMVLLSSL-CL--- 115
Db	1483 LLL----LANQPTAWLDFIEGARG-QWWSDSVAGDATPALQPAFWRRELQALGCACEP 1536
Qy	116 ---LLPDEDALPFL-----TLASAPSQDGKTEAPRGAWKILGLFHYAALYYPLAA 162
Db	1537 AADFPLDTRSGPYLLAATVATVADGDSGRTVDAPPARRWLLADAADAAVARPLAA 1592

Search completed: February 8, 2005, 13:40:07  
 Job time : 90.3473 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model  
 Run on: February 8, 2005, 13:20:30 ; Search time 144.513 Seconds  
 (without alignments)  
 869.796 Million cell updates/sec

Title: US-09-816-653A-4  
 Perfect score: 1695  
 Sequence: 1 CYISALVILSCLLTFLVLMRS.....APPTWLWESQQGEFWRKKLIVG 325

Scoring table: BLOSUM62  
 Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : A\_Geneseq\_16Dec04;\*  
 1: geneseqP1980s;\*  
 2: geneseqP1990s;\*  
 3: geneseqP2000s;\*  
 4: geneseqP2001s;\*  
 5: geneseqP2002s;\*  
 6: geneseqP2003as;\*  
 7: geneseqP2003bs;\*  
 8: geneseqP2004s;\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	1679	99.1	325	6	ABB99463		Abb99463 Amino aci
2	1134	66.9	660	5	AAU91277		Aau91277 Human NOV
3	1110.5	65.5	491	5	ABP68961		Abp68961 Human pol
4	1110.5	65.5	560	4	AAB94108		Aab94108 Human pro
5	1110.5	65.5	560	5	ABP69799		Abp69799 Human pol
6	1110.5	65.5	599	7	ADB64152		Abd64152 Human pro
7	1110.5	65.5	666	6	ABU82087		Abu82087 Novel hum
8	1110.5	65.5	667	4	AAU04557		Aau04557 Human Str
9	1110.5	65.5	667	4	AAB88572		Aab88572 Human hyd
10	1110.5	65.5	667	5	AAU83631		Aau83631 Human PRO
11	1110.5	65.5	667	5	AAU78575		Aau78575 Human Str
12	1110.5	65.5	667	5	ABB05048		Abb05048 Human NOV
13	1110.5	65.5	667	5	AAO19413		Aao19413 Human mol
14	1110.5	65.5	667	6	ABU80778		Abu80778 Human PRO
15	1110.5	65.5	667	6	ABO33744		Ab033744 Novel hum
16	1110.5	65.5	667	6	ABJ72267		Abj72267 Human PRO
17	1110.5	65.5	667	6	ABJ72395		Abj72395 Human PRO
18	1110.5	65.5	667	6	ABO34290		Ab034290 Human sec
19	1110.5	65.5	667	7	ABJ72097		Abj72097 Human mem
20	1110.5	65.5	667	7	ADB83570		Adb83570 Novel hum
21	1110.5	65.5	667	7	ADB80676		Adb80676 Novel hum
22	1110.5	65.5	667	7	ADB73217		Adb73217 Novel hum
23	1110.5	65.5	667	7	ADB78299		Adb78299 Novel hum
24	1110.5	65.5	667	7	ADB84947		Adb84947 Human PRO
25	1110.5	65.5	667	7	ADB78053		Adb78053 Novel hum

## ALIGNMENTS

RESULT 1  
 ABB99463  
 ID ABB99463 standard; protein; 325 AA.  
 XX  
 AC ABB99463;  
 XX DT 12-FEB-2003 (first entry)  
 XX DE Amino acid sequence of the carboxy-terminal of human STRA6.  
 XX KW Human; STRA6; retinoic acid; hSTRA6; Wnt-1; cellular transformation; tumour; colon cancer; breast cancer; melanoma; gene therapy.  
 XX OS Homo sapiens.  
 XX FH Key Location/Qualifiers  
 FT Misc-difference 146 /note= "unknown amino acid encoded by GNN"  
 FT Misc-difference 147 /note= "unknown amino acid encoded by NNN"  
 FT Misc-difference 148 /note= "unknown amino acid encoded by TNG"  
 FT Misc-difference 213 /note= "unknown amino acid encoded by NCC"  
 FT Misc-difference 232 /note= "unknown amino acid encoded by GG"  
 FT Misc-difference 290 /note= "unknown amino acid encoded by ANG"  
 FT Misc-difference 292 /note= "unknown amino acid encoded by NGT"  
 FT Misc-difference 302 /note= "unknown amino acid encoded by TNG"  
 FT Misc-difference 303 /note= "unknown amino acid encoded by CAN"  
 FT Misc-difference 303 /note= "unknown amino acid encoded by GAN"  
 XX PR 03-OCT-2002.  
 XX PF 23-MAR-2001; 2001WO-US009561.  
 XX PR 23-MAR-2000; 2000US-0191532P.  
 XX PA (CURA-) CURAGEN CORP.  
 (GETH ) GENENTECH INC.  
 XX PI Rastelli LK, Pennica D;  
 XX

DR WPI; 2003-058366/05.  
 DR N-PSDB; ABV76853.

XX PT New human STRA6 (stimulated by retinoic acid) proteins and nucleic acids encoding the proteins, useful for treating cancers (e.g. colon and breast cancer, or melanoma), or in gene therapy.

XX PT PS Claim 4; Page 11-13; 113pp; English.

XX CC The present sequence represents the carboxy-terminal portion of a human protein, designated STRA6 (stimulated by retinoic acid). hSTRA6 (human STRA6) is modulated by Wnt-1 and plays a role in cellular transformation. The hSTRA6 nucleic acids and proteins are useful for treating tumours (e.g. colon and breast cancer, or melanoma), in gene therapy, in diagnostic applications where the presence or amount of the nucleic acid or protein is to be assessed, and in the generation of antibodies that bind immunospecifically to these sequences for therapeutic and diagnostic applications. hSTRA6 nucleic acid fragments may be used as hybridization probes to identify hSTRA6-encoding nucleic acids, or as PCR primers for amplification and/or mutation of hSTRA6 molecules

XX SQ Sequence 325 AA;

Query Match	99.1%;	Score 1679;	DB 6;	Length 325;
Best Local Similarity	100.0%;	Pred. No. 5-3e-166;		
Matches	325;	Mismatches	0;	Indels 0;
			Gaps 0;	

Qy 1 CYISALVILSCLLTFVLMLRSLVTHRIGSCGSGDQFQSNLFSVPLPPLLAGLLVQQIIF 60  
 Db 1 CYISALVILSCLLTFVLMLRSLVTHRIGSCGSGDQFQSNLFSVPLPPLLAGLLVQQIIF 60

Qy 61 FLGTTALAFLVLMPLHGRNLFFRSLESWPFWLTLAVLIVNMAAHWVFLETHDGHP 120  
 Db 61 FLGTTALAFLVLMPLHGRNLFFRSLESWPFWLTLAVLIVNMAAHWVFLETHDGHP 120

Qy 121 QLTNRVLYAAATFLFPLNVLGAMXXXCSPSLTAIRHPTPGYYTYRNFLKIEVSQSHPAM 180  
 Db 121 QLTNRVLYAAATFLFPLNVLGAMXXXCSPSLTAIRHPTPGYYTYRNFLKIEVSQSHPAM 180

Qy 181 TAFCSLLLQAQSLLPRTMAAPQDSLRLPGEDEGMQLQTQDSMAKGARPGXGRARWGL 240  
 Db 181 TAFCSLLLQAQSLLPRTMAAPQDSLRLPGEDEGMQLQTQDSMAKGARPGXGRARWGL 240

Qy 241 AYTLLHNPTLQVRKTALLGANGAQPCSSLPGSPPSITPAMQPGPPDHGXVEVCLHWE 300  
 Db 241 AYTLLHNPTLQVRKTALLGANGAQPCSSLPGSPPSITPAMQPGPPDHGXVEVCLHWE 300

Qy 301 PXXGSAPP TLWESQQGFWRKLVG 325  
 Db 301 PXXGSAPP TLWESQQGFWRKLVG 325

RESULT 2  
 AAU91277 standard; protein; 660 AA.  
 ID AAU91277;  
 XX DT 18-JUN-2002 (first entry)  
 XX DE Human NOV2a protein.

XX KW Human; NOVX; gene therapy; cardiomyopathy; atherosclerosis; diabetes; cell signal processing; metabolic pathway modulation; inflammation; autoimmune disorder; scleroderma; transplantation; allergy; systemic lupus erythematosus; haemophilia; Alzheimer's disease; graft versus host disease; Lesch-Nyhan syndrome; periodontitis; musculoskeletal disorder; Parkinson's disease; Huntington's disease; behavioural disorder; pain; obesity; wound healing; neurodegenerative disorder; neuropsychiatric disorder; hypertension; growth disorder; reproductive disorder; lung disease.

XX OS Homo sapiens.

XX PN WO200216600-A2.  
 XX PD 28-FEB-2002.  
 XX PF 27-AUG-2001; 2001WO-US026518.  
 XX PR 25-AUG-2000; 2000US-0227800P.  
 XX PR 25-AUG-2000; 2000US-0228205P.  
 XX PR 25-AUG-2000; 2000US-0228324P.  
 XX PR 30-AUG-2000; 2000US-0228997P.  
 XX PR 30-AUG-2000; 2000US-0229185P.  
 XX PR 01-SEP-2000; 2000US-0229780P.  
 XX PR 01-SEP-2000; 2000US-0229848P.  
 XX PR 01-SEP-2000; 2000US-0229850P.  
 XX PR 22-JAN-2001; 2001US-0263337P.  
 XX PR 31-JAN-2001; 2001US-0265518P.  
 XX PR 15-MAR-2001; 2001US-0276451P.  
 XX PR 27-MAR-2001; 2001US-0279196P.  
 XX PR 24-AUG-2001; 2001US-00939398.  
 XX PA (CURA-) CURAGEN CORP.

XX PI Gerlach V, Macdougall JR, Smithson G, Stone DJ, Ellerman K,  
 XX PI Spytek KA, Zerhusen BD, Rastelli L, Verney CAM, Patturajan M,  
 XX PI Tchernev VT, Padigaru M, Taupier RJ;  
 XX DR N-PSDB; ABK55561.

XX WPI; 2002-292064/33.

XX New isolated cytoplasmic, nuclear, membrane bound and secreted polypeptides, termed NOVX, useful for treating inflammation, autoimmune disorders, hemophilia, Lesch-Nyhan syndrome, pancreatitis, musculoskeletal disorders.

XX PA Claim 1; Page 18; 245pp; English.

XX The invention relates to an isolated cytoplasmic, nuclear, membrane bound or secreted polypeptide, designated NOVX (formerly NOV1, 2a, 2b, 3a, 3b, 4, 5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 6, 7 and 8), a variant of NOVX, a mature form, or a variant of the mature form of NOVX. Also included are a polynucleotide encoding NOVX (or its complement), a vector comprising the polynucleotide, a cell comprising the vector, an anti-NOVX antibody, determining the presence of NOVX in a sample using a probe which binds to NOVX polynucleotide in a sample using a probe which binds to NOVX polynucleotide, identifying a an agent which binds to NOVX (including modulators of NOVX). NOVX, the polynucleotide and the antibody are useful for diagnosing, treating or preventing a NOVX-associated disorder selected from cardiomyopathy, atherosclerosis, diabetes, a disorder related to cell signal processing and metabolic pathway modulation, inflammation, autoimmune disorders, scleroderma, transplantation, allergies, systemic lupus erythematosus, haemophilia, graft versus host disease, Alzheimer's disease, stroke, Lesch-Nyhan syndrome, periodontitis, panreatitis, musculoskeletal disorders, pain, neurodegenerative and neuropsychiatric disorders, hypertension, wound healing, obesity, growth and reproductive disorders, lung diseases and many other diseases and disorders listed in the specification. NOVX, the polynucleotide and the antibody are useful in screening assays, detection assays (e.g., chromosomal mapping, tissue typing, forensic biology), predictive medicine (e.g., diagnostic assays, prognostic assays, monitoring clinical trials and pharmacogenomic), and in methods of treatment (e.g., therapeutic and prophylactic). NOVX is useful as immunogen to produce antibodies immunospecific for NOVX, as vaccines to screen for potential agonist and antagonist compounds, and as bait protein in a two-hybrid or three-hybrid assay. The polynucleotide is useful in gene therapy, to express NOVX, to detect NOVX mRNA or a genetic lesion in a NOVX gene, and to modulate NOVX activity. The vector is useful for producing non-human transgenic animals. The antibody is useful for isolating, and purifying NOVX and to monitor protein levels in tissue as part of a clinical testing procedure. The present sequence represents a NOVX protein.

SQ	Sequence 660 AA;	Query Match Score 1134; DB 5; Length 660;	PS Claim 9; SEQ ID NO 1008; 1012pp + Sequence Listing; English.
	Best Local Similarity 76.9%; Pred. No. 8.4e-109; Matches 237; Conservative 4; Mismatches 25; Indels 42; Gaps 5;	XX The invention relates to an isolated polynucleotide (I) comprising a nucleotide sequence selected from any of 948 sequences (ABZ11119-ABZ12066) or their mature protein coding portion, active domain coding protein or complementary sequences. The polynucleotides are useful for identifying expressed genes or for physical mapping of human genome. The encoded polypeptides (ABP68902-ABP6949) are useful as molecular weight markers, as a food supplement, for generating antibodies, in medical imaging, screening and diagnostic assays and for treating cell-proliferative disorders (cancer), neurodegenerative diseases (Parkinson's or Alzheimer's disease), autoimmune diseases (multiple sclerosis, diabetes, lupus) genetic disorders, myeloid or lymphoid disorders, platelet or coagulation disorders, wound, burns, incision, ulcers, liver or lung fibrosis, infections (bacterial, viral, parasitic), arthritis, etc. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences	CC
Qy	1 CYISALVLSCLLTFVLMRSLVTHR----LGSGGSGD-----GQFSWNLF 42	CC	
Db	353 CYISALVLSCLLTFVLMRSLVTHRNLRAHLHGRGAALDLSPHRSPSRQAIFCWMSFS 412	CC	
Qy	43 VPLP-----LPPLAGLLVQQIIFFLGTTALAFLVLMPLHGRNLLFFRSLESWPFWLTL 97	CC	
Db	413 AYQTAFCICLPPLAGLLVQQIIFFLGTTALAFLVLMPLHGRNLLFFRSLESWPFWLTL 472	CC	
Qy	98 ALAVILQONMAAHWVFLETHDGHPQLTNRVLVYATFLLFPLNVLGAMXXXC-----	CC	
Db	473 ALAVILQONMAAHWVFLETHDGHPQLTNRVLVYATFLLFPLNVLGAMVATWRVLLSALY 532	CC	
Qy	150 -----SPSIAIRHP-----TPGYTYTNRFLKIEVSOSHAPMTAFCSSLQASILLPRTM 198	CC	
Db	533 NATHLGQMDLSLPPRAATLDPGYYTYRNFLKIEVSOSHAPMTAFCSSLQASILLPRTM 592	CC	
Qy	199 AAPQDSLRPGEEDEGMQLLQTQDSMAKGARGAXGRARWGLAYTLLHNPTLQVFRKTA 258	XX	
Db	593 AAPQDSLRPGEEDEGMQLLQTQDSMAKGARGASRGARWGLAYTLLHNPTLQVFRKTA 652	XX	
Qy	259 LGANGAQP 266	Qy 1 CYISALVLSCLLTFVLMRSLVTHR----LGSGGSGD-----GQFSWNLF 42	
Db	653 LGANGAQP 660	Db 189 CYISALVLSCLLTFVLMRSLVTHRNLRAHLHGRGAALDLSPHRSPSRQAIFCWMSFS 248	
RESULT 3		Qy 43 VPLPPLPPLAGLLVQQIIFFLGTTALAFLVLMPLHGRNLLFFRSLESWPFWLTLALAVI 102	
ID	ABP68961 standard; protein; 491 AA.	Db 249 AYQTAFCICLGLVQQIIFFLGTTALAFLVLMPLHGRNLLFFRSLESWPFWLTLALAVI 308	
XX		Qy 103 LQNMMAHWVFLETHDGHPQLTNRVLVYATFLLFPLNVLGAMXXXC----- 149	
AC	ABP68961;	Db 309 LQNMMAHWVFLETHDGHPQLTNRVLVYATFLLFPLNVLGAMVATWRVLLSALYNAIHL 368	
XX	20-JAN-2003 (first entry)	Qy 150 -SPSIAIRHP-----TPGYTYTNRFLKIEVSOSHAPMTAFCSSLQASILLPRTM 203	
XX	Human polypeptide SEQ ID NO 1008.	Db 369 GQMDLSLPPRAATLDPGYYTYRNFLKIEVSOSHAPMTAFCSSLQASILLPRTM 428	
XX		Qy 204 SLRPGEDEGMQLLQTQDSMAKGARGAXGRARWGLAYTLLHNPTLQVFRKTLGANG 263	
		Db 429 SLRPGEDEGMQLLQTQDSMAKGARGASRGARWGLAYTLLHNPTLQVFRKTLGANG 488	
KW	Human; genome mapping; gene therapy; food supplement; virus; fungus; cell-proliferative disorder; neurodegenerative disease; bacterial; Parkinson's disease; Alzheimer's disease; autoimmune disease; multiple sclerosis; diabetes; genetic disorder; wound; burn; infection; arthritis; cyostatic; immunomodulator; nootropic; neuroprotective; antiparkinsonian; antiidiabetic; immunosuppressive; dermatological; haemostatic; vulnerary; fungicide; antibacterial; virucide; protozoacide; antiarthritic.	Qy 264 AQP 266	
KW	Homo sapiens.	Db 489 AQP 491	
OS		RESULT 4 AAB94108	
XX	WO200270539-A2.	ID AAB94108 standard; protein; 560 AA.	
XX	12-SEP-2002.	XX AAB94108;	
PD		XX AC AAB94108;	
XX	05-MAR-2002; 2002WO-US005095.	XX DT 26-JUN-2001 (first entry)	
PP		XX DE Human protein sequence SEQ ID NO:14340.	
XX	05-MAR-2001; 2001US-00799451.	XX DE Human; primer; detection; diagnosis; antisense therapy; gene therapy.	
PR		XX KW Homo sapiens.	
XX	(HYSEQ) HYSEQ INC.	XX OS Homo sapiens.	
PA		XX PN EP1074617-A2.	
XX	Tang YT, Zhou P, Goodrich RW, Asundi V, Zhang J, Zhao QA, Ren F; Xue AJ, Yang Y, Ma Y, Yamazaki V, Chen R, Wang Z, Ghosh M; Wehrman T, Wang J, Wang D, Drmanac RT;	XX PD 07-FEB-2001.	
XX	WPI; 2002-759812/82.	XX PF 28-JUL-2000; 2000EP-00116126.	
DR	N-PSDB; ABZ11178.	XX PR 29-JUL-1999; 99JP-00248036.	
XX	New polynucleotides comprising sequences assembled from expressed sequence tags (ESTs), useful for treating cell-proliferative, neurodegenerative, autoimmune, genetic, myeloid or lymphoid, or platelet or coagulation disorders.	PR 27-AUG-1999; 99JP-00300253.	

PR 11-JAN-2000; 2000JP-00118776.  
 PR 02-MAY-2000; 2000JP-00183767.  
 PR 09-JUN-2000; 2000JP-00241899.  
 XX PA (HELI-) HELIX RES INST.  
 XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
 XX DR WPI; 2001-318749/34.

XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX Claim 8; SEQ ID NO 14340; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises:  
 CC (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AAH03166 to AAH13628 and AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893 represent human amino acid sequences; and AAH13632 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention

XX SQ Sequence 560 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 560;  
 Best Local Similarity 76.6%; Pred. No. 1.9e-106;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYTISALVLSCLLTFLVLMRSLVTHR----LGSGGGSD-----GQFSWNLFS 42  
 Db 258 CYTISALVLSCLLTFLVLMRSLVTHR TNLRALHRGAALDLSPHLRSPRSRQAIFCWMMSFS 317

Qy 43 VPLPLPLAGLIVQQIIFFLGTTALAFLVLTMPVILHGRNLLFFRSLESSSWPFWTLALAVI 102  
 Db 318 AYQTAFICLGLIVQQIIFFLGTTALAFLVLTMPVILHGRNLLFFRSLESSSWPFWTLALAVI 377

Qy 103 LQNMAAHWVFLETHDGHFQLTNRRVLYAATFLLFPLNVLYGAMXXXC-----149  
 Db 378 LQNMAAHWVFLETHDGHFQLTNRRVLYAATFLLFPLNVLYGAMVATWRVLLSALYNIAHL 437

Qy 150 -SPSIAIRHP----TPGYYYTNRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 203  
 Db 438 QMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 497

Query Match 65.5%; Score 1110.5; DB 5; Length 560;  
 Best Local Similarity 76.6%; Pred. No. 1.9e-106;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYTISALVLSCLLTFLVLMRSLVTHR----LGSGGGSD-----GQFSWNLFS 42  
 Db 258 CYTISALVLSCLLTFLVLMRSLVTHR TNLRALHRGAALDLSPHLRSPRSRQAIFCWMMSFS 317

Qy 43 VPLPLPLAGLIVQQIIFFLGTTALAFLVLTMPVILHGRNLLFFRSLESSSWPFWTLALAVI 102

Query Match 65.5%; Score 1110.5; DB 5; Length 560;  
 Best Local Similarity 76.6%; Pred. No. 1.9e-106;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 204 SLRPGEEDEGMQLQTKDSMAKGARGAXRGRAWPGLAYTLLHNPTLQVERKTALLGANG 263  
 Db 498 SLRPGEEDEGMQLQTKDSMAKGARGASRGARWGLAYTLLHNPTLQVERKTALLGANG 557

Qy 264 AQP 266  
 Db 558 AQP 560

RESULT 5

318 AYQTAFIGICLGLVQQIIFFLGTTALAFLVLMVHGRNLLFRTSLESSWPFWLTLALAVI 377  
 103 LQNMAAHWVFLETHDGHPQLTNRVLYAATFLFLFPNVLYGAMXXC----- 149  
 378 LQNMAAHWVFLETHDGHPQLTNRVLYAATFLFLFPNVLYGAMVATWRVLLSALYNATHL 437  
 150 -SPSIAIRHP----TPGYTYRNFLKIEVSQSHPANTAFCSLLLQAOSLLPRTMAAPQD 203  
 :::  
 43.8 GQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPANTAFCSLLLQAOSLLPRTMAAPQD 497  
 204 SLRPGEEDEGMQLQTKDSMAKGARGPGAXRGBARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 498 SLRPGEEDEGMQLQTKDSMAKGARGPGASGRGARWGLAYTLLHNPTLQVFRKTALLGANG 557

Db 264 AQP 266  
 Db 558 AQP 560

**RESULT 6**  
**ID ADB64152 standard; protein; 599 AA.**

XX ADB64152;  
 XX DT 04-DEC-2003 (first entry)  
 XX DE Human protein encoded by clone CTONG200041260.  
 XX KW Human; pharmaceutical; diagnostic; gene therapy; tissue regeneration; cell regeneration; membrane protein; signal transduction-related protein; transcription-related protein; osteoporosis; neurological disease; cancer; tumour.  
 XX OS Homo sapiens.  
 XX PN EP1308459-A2.  
 PD 07-MAY-2003.  
 XX PF 28-MAR-2002; 2002EP-00007401.  
 PR 05-NOV-2001; 2001JP-00379298.  
 PR 25-JAN-2002; 2002US-00350978.

XX PA (HELI-) HELIX RES INST.  
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.  
 XX PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;  
 PI Yamamoto J, Isono Y, Hio Y, Otsuka K, Nagai K, Irie R, Tamechika I;  
 PI Seki N, Yoshikawa T, Otsuka M, Nagahari K, Masuho Y;

XX WPI: 2003-450961/43.  
 DR N-PSDB; ADB62182.

XX The invention discloses a polynucleotide comprising a sequence selected from 1970 fully defined nucleotide sequences which encode novel polypeptides. Also claimed is a polypeptide encoded by the polynucleotide or its partial peptide, an antibody binding to the polypeptide or peptide of the polynucleotide, immunologically assaying the polypeptide or peptide of the polynucleotide by contacting the polypeptide or peptide with the antibody of the encoded protein, and observing the binding between the two, a transformant carrying the polynucleotide in an expressible manner and an antisense polynucleotide. The oligonucleotide is useful as a primer for synthesising the polynucleotide, or as a probe for detecting the polynucleotide. The polynucleotides and encoded proteins are useful as pharmaceutical agents and many disease-related

CC genes may be included in them, for developing a diagnostic marker or medicines for regulation of their expression and activity, or as targets of gene therapy. The genes are involved in tissue and/or cell regeneration. Membrane proteins, signal transduction-related proteins, transcription-related proteins, disease-related proteins and genes encoding them can be used as indicators for diseases (e.g. osteoporosis, neurological diseases, cancer, tumours. The cDNA may be used to regulate the activity or expression of the encoded protein to treat diseases. The sequence presented is a protein of the invention. Note: Some of the sequence data for this patent is not represented in the printed specification, but is based on sequence information supplied by the European Patent Office.

CC Sequence 599 AA;  
 SQ Query Match 65.5%; Score 1110.5; DB 7; Length 599;  
 Best Local Similarity 76.6%; Pred. No. 2.1e-106;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFVLMRSLVTHR----LGSGSGD-----GQFSWNLF 42  
 Db 297 CYISALVLSCLLTFVLMRSLVTHRNLRAHLRGNALDLSPHRSPHSRQAIFCWMMSFS 356

Qy 43 VPLPLPPLAGLUVQQLIFFLGGTTALAFLVLMVHGRNLLFRTSLESSWPFWLTLALAVI 102  
 Db 357 AYQTAFIGICLGLLVQQLIFFLGGTTALAFLVLMVHGRNLLFRTSLESSWPFWLTLALAVI 416

Qy 103 LQNMAAHWVFLETHDGHPQLTNRRVLYAATFLFLFPNVLYGAMXXXC----- 149  
 Db 417 LQNMAAHWVFLETHDGHPQLTNRRVLYAATFLFLFPNVLYGAMVATWRVLLSALYNATHL 476

Qy 150 -SPSIAIRHP----TPGYTYRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 203  
 Db 477 QMDSLSSLPPRAATLDPGYYTYRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 536

Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARGPGAXRGBARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 Db 537 SLRPGEEDEGMQLLQTKDSMAKGARGPGASGRGARWGLAYTLLHNPTLQVFRKTALLGANG 596

Qy 264 AQP 266  
 Db 597 AQP 599

**RESULT 7**  
**ID ABU82087 standard; protein; 66 AA.**

XX AC ABU82087;  
 XX DT 26-JUN-2003 (first entry)  
 XX DE Novel human secreted and transmembrane protein PRO10282.  
 XX Human; secreted and transmembrane protein; PRO; cardiant; cytostatic; antiangiogenic; hypotensive; vulnery; antiarteriosclerotic; gene therapy; cardiovascular disorder; endothelial disorder; angiogenic disorder; cardiac hypertrophy; trauma; cancer; age-related macular degeneration; atherosclerosis; hypertension; arterial restenosis; rheumatoid arthritis; angina; myocardial infarction; thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma; wound healing; chromosome mapping; gene mapping.  
 XX Homo sapiens.  
 OS Homo sapiens.  
 XX US2003088063-A1.  
 XX PN US2003088063-A1.  
 XX PD 08-MAY-2003.  
 XX PR 12-AUG-2002; 2002US-00219003.  
 XX PR 25-JUL-2000; 2000US-0220664P.  
 PR 01-JUN-2001; 2001WO-US01780.

PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-APR-2002; 2002US-00119480.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
 XX WPI; 2003-393229/37.  
 XX PS One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 PT infarction), endothelial or angiogenic disorders in a mammal.  
 XX PS Claim 11; Fig 80; 314pp; English.  
 XX CC The invention describes one hundred and eighty seven nucleic acids  
 CC encoding novel human secreted and transmembrane (PRO) polypeptides. The  
 CC PRO nucleic acids, polypeptides, agonists and antagonists are useful for  
 CC treating or diagnosing a cardiovascular, endothelial or angiogenic  
 CC disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-  
 CC related macular degeneration, atherosclerosis, hypertension, arterial  
 CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,  
 CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast  
 CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids  
 CC have applications in molecular biology, including use as hybridisation  
 CC probes, and in chromosome and gene mapping. This is the amino acid  
 CC sequence of a novel human secreted and transmembrane PRO polypeptide  
 XX SQ Sequence 666 AA;

Query	Match	Score	Length
	Best Local Similarity	1110.5;	666;
	Matches 232; Conservative	Pred. No. 2.4e-106;	
	Mismatches 30;	Indels 37;	Gaps 4;

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 1 CYISALVSLCLLTFLVLMRSLVTHR----LGSGGGSD-----GQFSWNLFS 42
 364 CYISALVSLCLLTFLVLMRSLVTHRNLRAHLHRGAALDLSPHLRSPHSRQAIFCWMSFS 423
 43 VPLPLPLAGLLVQQIIFFLGTTALAFLVLYMPVLHGRNLLFFRSLESSWPFWTLALAVI 102
 424 AYQTAFIGCLGLLQQIIFFLGTTALAFLVLYMPVLHGRNLLFFRSLESSWPFWTLALAVI 483
 103 LQNMMAHWVFLETHDGHQPQLTNRRVLYAATFLLFPVNLYGAMXXXC----- 149
 484 LQNMMAHWVFLETHDGHQPQLTNRRVLYAATFLLFPVNLYGAMVATWRVLLSALYNIAHL 543
 150 -SPSIAIRHP----TPGYYTYRNFLKIEVSQSHBANTAFCSLLLQAQSLLPRTMAAPQD 203
 54.4 GQMDLSLLPRAATLDPGYYTYRNFLKIEVSQSHBANTAFCSLLLQAQSLLPRTMAAPQD 603
 204 SLRPGEEDEGMQLQTKDSMAKGARGXRGARWGLAYTLLHNPTLQVFRKTALLGANG 263
 604 SLRPGEEDEGMQLQTKDSMAKGARGXRGARWGLAYTLLHNPTLQVFRKTALLGANG 663
 264 AQP 266
 664 AQP 666

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XX Qy 11-JAN-2001; 2001WO-US000847.  
 XX Db 13-JAN-2000; 2000US-0175849P.  
 XX PR 14-APR-2000; 2000US-0197089P.  
 XX PR 29-AUG-2000; 2000US-0228914P.  
 XX PA (GETH ) GENENTECH INC.  
 XX DR 2001-442146/47.  
 XX PR 2001-442146/47.  
 XX PI Pennica D, Smith V, Wood WI;  
 XX DR N-PSDB; AAS08630.  
 XX PT Human nucleic acid encoding a PRO10282 or PRO19578 polypeptide (the PRO  
 PT polypeptides are referred to as Stra6 polypeptides), useful in molecular  
 PT biology, including use as hybridization probes, and in chromosome and  
 PT gene mapping.

**RESULT 8**  
 AAU04557 ID AAU04557 standard; protein; 667 AA.  
 XX AC AAU04557;  
 XX DT 26-SEP-2001 (first entry)  
 XX DE Human Stra6 homologue, PRO10282.  
 XX KW Human; Stra6; PRO10282; 15q23; tumour; breast cancer; head tumour;  
 KW leukaemia; lymphoid malignancy; inflammatory disorder;  
 KW immunogenic disorder; antigen; antibody.

PS Claim 24; Fig 2; 159pp; English.

XX The sequence is human PRO10282, a homologue of murine Stra6, a retinoic acid responsive protein thought to play an important role in early dorsoventral limb patterning during development and later in the control of endochondral ossification. The gene for the Stra6 homologue is located on chromosome 15q23. The Stra6 polypeptides, antagonists, agonists or anti-Stra6 antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the Stra6 polypeptides, antagonists, or anti-Stra6 antibodies. The Stra6 polypeptides may also be employed as molecular weight markers for protein electrophoresis. The Stra6 nucleic acids have applications in molecular biology, hybridisation probes, and in chromosome and gene mapping. The antibodies and other anti-tumour compounds may be used to treat various conditions, including those characterised by overexpression and/or activation of amplified genes. Exemplary conditions or disorders include benign or malignant tumours (e.g., renal, liver, kidney, bladder, breast, gastric, ovarian, colorectal, prostate, pancreatic, lung, vulval, thyroid, hepatic carcinomas, sarcomas, glioblastomas, and various head and neck tumours, leukaemias and lymphoid malignancies), neuronal, glial, astrocytal, hypothalamic and other glandular, macrophagal, epithelial, stromal and blastocoelic disorders, inflammatory, angiogenic and immunogenic disorders.

XX Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 667;  
Best Local Similarity 76.6%; Pred. No. 2.4e-106;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy	1	CYISALVSLCLTFLVLMRSIVTHR-----LGSGCGD-----GQFSWNLFS	42
Db	365	CYISALVSLCLTFLVLMRSIVTHRNLHGRGAIDLSPLHRSPHSRQAFICWMSFS	424
Qy	43	VPLPLPLLAGLIVQQIIFLGGTTALAFLYLMPVLHGRNLFFRSLESSWPFWTLALAVI	102
Db	425	AYQATFICGLLIVQQIIFLGGTTALAFLYLMPVLHGRNLFFRSLESSWPFWTLALAVI	484
Qy	103	LQNMAAHWVFLETHDGHPOLTNRRVLYAATFLLFPLNVLGAMXXXX-----	149
Db	485	LQNMAAHWVFLETHDGHPOLTNRRVLYAATFLLFPLNVLGAMVATWRVLLSALYNIAHL	544
Qy	150	-SPSIAIRHP----TPGYTYTRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD	203
Db	545	GQMDLSSLPPRAATLDPGYTYTRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD	604
Qy	204	SLRPGEEDEGMQLLQTQKDSMAGARGARGLAYTLLHNPTLQVRKTALLGANG	263
Db	605	SLRPGEEDEGMQLLQTQKDSMAGARGARGLAYTLLHNPTLQVRKTALLGANG	664
Qy	264	AQP 266	
Db	665	AQP 667	

Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 4; Length 667;  
Best Local Similarity 76.6%; Pred. No. 2.4e-106;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy	1	CYISALVSLCLTFLVLMRSIVTHR-----LGSGCGD-----GQFSWNLFS	42
Db	365	CYISALVSLCLTFLVLMRSIVTHRNLHGRGAIDLSPLHRSPHSRQAFICWMSFS	424
Qy	43	VPLPLPLLAGLIVQQIIFLGGTTALAFLYLMPVLHGRNLFFRSLESSWPFWTLALAVI	102
Db	425	AYQATFICGLLIVQQIIFLGGTTALAFLYLMPVLHGRNLFFRSLESSWPFWTLALAVI	484
Qy	103	LQNMAAHWVFLETHDGHPOLTNRRVLYAATFLLFPLNVLGAMXXXX-----	149
Db	485	LQNMAAHWVFLETHDGHPOLTNRRVLYAATFLLFPLNVLGAMVATWRVLLSALYNIAHL	544
Qy	150	-SPSIAIRHP----TPGYTYTRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD	203
Db	545	GQMDLSSLPPRAATLDPGYTYTRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD	604
Qy	204	SLRPGEEDEGMQLLQTQKDSMAGARGARGLAYTLLHNPTLQVRKTALLGANG	263
Db	605	SLRPGEEDEGMQLLQTQKDSMAGARGARGLAYTLLHNPTLQVRKTALLGANG	664
Qy	264	AQP 266	
Db	665	AQP 667	

PS WO200112660-A2.  
XX PN 22-FEB-2001.  
XX PD 10-AUG-2000; 2000WO-JP005356.  
XX PR 17-AUG-1999; 99JP-00230344.  
XX PR 07-SEP-1999; 99JP-00252551.  
XX PR 01-OCT-1999; 99JP-00281132.  
XX PR 22-OCT-1999; 99JP-00301624.  
XX PR 04-NOV-1999; 99JP-00313877.  
XX PA (SAGA ) SAGAMI CHEM RES CENT.  
PA (PROT-) PROTEGENE INC..  
XX PI Kato S , Kimura T ;  
XX DR WPI: 2001-160059/16.  
N-PSDB; AAF94442 .  
XX Human proteins with hydrophobic domains and the DNAs which encode them are useful for treating autoimmune disorders, burns and tumors and for screening novel pharmaceuticals.  
XX PT  
PT  
PT  
PT  
XX PS Claim 1; Page 288-291; 518pp; English.  
XX CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant, anti-HIV, neuroprotective, antianaemic, vulnerary, antiulcer, osteopathic, anti-inflammatory and cytostatic activities, and can be used in gene therapy. (I) can be used as pharmaceuticals and as antigens to prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes for genetic diagnosis and gene sources for gene therapy or for producing (I) in large quantities. Cells containing (II) are used for the detection of ligands or receptors corresponding to membrane or secretory proteins and to screen small molecule novel pharmaceuticals. Antibodies directed to (I) can be used for the detection, quantification and purification of (I). Activities of (I) may include cytokine and cell proliferation/differentiation function, immune stimulating or suppressing activity, haematopoiesis regulating activity, tissue growth activity, haemostatic activity, chemotactic/chemokinetic activity, haemostatic activin/inhibin activity, receptor/ligand activity and anti-inflammatory activity. (I) and (II) can be used to treat autoimmune disorders e.g. multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis, inflammatory bowel disease and tumours. (I) and (II) can also be used for wound healing, as nutritional sources or supplements e.g. as amino acid, carbon or nitrogen source, to effect metabolism, catabolism,abolism, processing and utilisation of dietary fat, protein, carbohydrate, vitamins and minerals, to effect behavioural characteristics, to affect appetite, and can act as antigens in vaccines to raise an immune response to the protein or another material cross-reactive with the protein

Db	545 GQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSSLILQAQSLLPRTMAAPQD	604	PS	Claim 11; Fig 80; 359pp; English.
Qy	204 SLRPGEEDGMQLLQTQDSMAGKARGARWGLAYTLLHNPLTQVFRKTALLGANG	263	XX	The invention relates to one hundred and twenty two nucleic acids
Db	605 SLRPGEEDGMQLLQTQDSMAGKARGARWGLAYTLLHNPLTQVFRKTALLGANG	664	CC	encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
Qy	264 AQP 266		CC	encode human secreted proteins. The PRO nucleic acids, polypeptides,
Db	665 AQP 667		CC	agonists and antagonists are useful for treating a PRO related disorder.
RESULT 10	AAU83631 standard; protein: 667 AA.		CC	The PRO polypeptides are useful for diagnosing tumours, especially lung
ID	AAU83631		CC	cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
XX			CC	liver tumour. The PRO polypeptides are useful for stimulating the
AC			CC	proliferation of, or gene expression, in pericyte cells, for stimulating
XX			CC	the proliferation or differentiation of chondrocyte cells, for
XX			CC	stimulating the release of tumour necrosis factor-alpha from human blood,
DT	08-MAY-2002 (first entry)		CC	for stimulating or inhibiting the proliferation of normal human dermal
XX			CC	fibroblast cells. The PRO polypeptide may also be used as molecular
DE	Human PRO protein, Seq ID No 80.		CC	weight markers and for tissue typing. The PRO nucleic acids have
XX	Human; secreted protein; PRO; tumour; lung cancer; colon cancer;		CC	applications in molecular biology, including use as hybridisation probes,
KW	breast cancer; prostate tumour; rectal tumour; liver tumour;		CC	and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
KW	pericyte cell proliferation; chondrocyte cell proliferation;		CC	protein sequences of the invention
XX	tumour necrosis factor-alpha.		XX	
OS	Homo sapiens.		SQ	Sequence 667 AA;
PN	WO200208288-A2.		Query Match	65.5%; Score 1110.5; DB 5; Length 667;
XX	PD		Best Local Similarity	76.6%; Pred. No. 2.4e-106;
PD	31-JAN-2002.		Matches	4; Mismatches
XX	XX		Conservative	232; Indels 37; Gaps 4;
PR	29-JUN-2001; 2001WO-US021066.		QY	1 CYISALVSLSCLLTFLVLMRSVLVTHR----LGSGGGD-----GQFSWNLF 42
PR	20-JUL-2000; 20000US-0219556P.		Db	365 CYISALVSLSCLLTFLVLMRSVLVTHRNLRAHLRGAALDLSPHRSRQAIFCWMSFS 424
PR	25-JUL-2000; 20000US-0220585P.		QY	43 VPLPLPPLAGLIVQQLIFFLGTATAFLVLMPPVILHGRNLLFFRSLESSWPFWLTALAVI 102
PR	25-JUL-2000; 20000US-0220605P.		Db	485 LQNMAAHWVFILETHDGHPOLTNRVRLYATFLLFPLNVLGAMXXXC-----149
PR	25-JUL-2000; 20000US-0220607P.		QY	103 LQNMAAHWVFILETHDGHPOLTNRVRLYATFLLFPLNVLGAMXXXC-----149
PR	25-JUL-2000; 20000US-0220624P.		Db	485 LQNMAAHWVFILETHDGHPOLTNRVRLYATFLLFPLNVLGAMVATWRVLLSALYNAILH 544
PR	25-JUL-2000; 20000US-0220638P.		QY	150 -SPSIAIRHP----TPGYTTYRNFLKIEVSQSHPAMTAFCSSLILQASILLPRTMAPQD 203
PR	25-JUL-2000; 20000US-0220664P.		Db	545 QMDLSSLLPPRAATLDPGYTTYRNFLKIEVSQSHPAMTAFCSSLILQASILLPRTMAPQD 604
PR	25-JUL-2000; 20000US-0220666P.		QY	204 SLRPGBEDEGMQILLQTKDSMAGKARGPQXGRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263
PR	26-JUL-2000; 20000US-0220893P.		Db	605 SLRPGEEDEGMQLLQTKDSMAGKARGPQXGRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664
PR	28-JUL-2000; 20000WO-US020710.		QY	264 AQP 266
PR	01-AUG-2000; 20000US-0222425P.		Db	665 AQP 667
PR	22-AUG-2000; 20000US-02227133P.		RESULT 11	
PR	23-AUG-2000; 20000WO-US023522.		AAU78575	
PR	24-AUG-2000; 20000WO-US023328.		ID	AAU78575 standard; protein; 667 AA.
PR	10-NOV-2000; 20000WO-US030873.		XX	
PR	28-NOV-2000; 20000US-0253646P.		AC	AAU78575;
PR	01-DEC-2000; 20000WO-US032678.		XX	
PR	20-DEC-2000; 20000US-00747259.		DT	18-JUN-2002 (first entry)
PR	20-DEC-2000; 20000WO-US034956.		XX	
PR	28-FEB-2001; 20001WO-US006520.		DE	Human Stra6 (PRO10282) protein.
PR	01-MAR-2001; 20011US-US006666.		XX	
PR	22-MAR-2001; 20011US-00816744.		OS	Homo sapiens.
PR	10-MAY-2001; 20011US-00854208.		FH	Human; cancer; Stra6; PRO10282; cytostatic; stromal disorder; tumour;
PR	10-MAY-2001; 20011US-00854280.		FT	KW retinoid; Wnt; tumour antigen; leukaemia; lymphoid malignancy;
PR	25-MAY-2001; 20011WO-US017092.		FT	neuronal disorder; glial disorder; astrocytal disorder; macrophagal disorder;
XX	(GETH ) GENENTECH INC.		FT	KW hypothalamic disorder; glandular disorder; chromosomal disorder; epithelial disorder; blastocoelic disorder; chromosome 15q23.
PA	Baker KP, Destroyers L, Gerritsen ME, Goddard A, Godowski PJ;		FT	KW
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JP, Watanabe CK, Wood WI;		FT	
XX	WPI; 2002-172001/22.		FT	
DR	N-PSDB; ABK33575.		FT	
XX	One hundred and twenty two nucleic acids encoding PRO polypeptides,		XX	Location/Qualifiers
PT	useful for treating a PRO related disorder and for diagnosing tumors such		8 .12	
PT	as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor		/note= "N Glycosylation site"	
PT	or liver tumor.		50 .56	
XX	DR		/note= "N-myristoylation site"	

FT Domain .54. .69  
 /note= "Transmembrane domain"  
 FT Domain .102. .119  
 /note= "Transmembrane domain"  
 FT Region .132. .140  
 /note= "ATP/GTP binding site motif A"  
 FT Domain .148. .166  
 /note= "Transmembrane domain"  
 FT Region .176. .182  
 /note= "N-myristoylation site"  
 FT Domain .207. .222  
 /note= "Transmembrane domain"  
 FT Region .241. .247  
 /note= "N-myristoylation site"  
 FT Domain .301. .320  
 /note= "Transmembrane domain"  
 FT Region .317. .323  
 /note= "N-myristoylation site"  
 FT Region .341. .347  
 /note= "N-myristoylation site"  
 FT Domain .364. .380  
 /note= "Transmembrane domain"  
 FT Region .364. .375  
 /note= "lipoprotein lipid attachment site"  
 FT Domain .431. .451  
 /note= "Transmembrane domain"  
 FT Domain .474. .489  
 /note= "Transmembrane domain"  
 FT Region .525. .531  
 /note= "N-myristoylation site"  
 FT Domain .560. .535  
 /note= "Transmembrane domain"  
 FT Region .627. .633  
 /note= "N-myristoylation site"  
 FT Region .631. .637  
 /note= "N-myristoylation site"  
 FT Region .640. .646  
 /note= "N-myristoylation site"  
 FT Region .661. .667  
 /note= "N-myristoylation site"  
 XX WO200218608-A2.  
 XX 07-MAR-2002.  
 XX PF 10-JUL-2001; 2001WO-US021635.  
 XX PR 29-AUG-2000; 2000US-0228914P.  
 XX PR 11-JAN-2001; 2001US-00759056.  
 XX PR 10-JUL-2001; 2001US-00901812.  
 XX PA (GETH ) GENENTECH INC.  
 XX Tice D, Pennica D, Polakis P, Szeto W;  
 XX DR 2002-292202/33.  
 XX DR N-PSDB; ABK47278.

XX Selectively enhancing the expression of a protein in a tumor cell characterized by aberrant Wnt signaling, useful for enhancing the efficacy of treatment of cancers, comprises treating the tumor cell with a retinoid.

XX Example 1; Fig 2; 141pp; English.

XX This invention relates to a novel method for selective enhancement of the expression of a protein in a tumour cell characterised by aberrant Wnt signalling by treating the tumour cell with a retinoid. The method is useful for enhancing the efficacy of treatment of cancers characterised by aberrant Wnt signalling, and for identifying tumour antigens the expression of which is selectively enhanced by retinoid treatment. The method is also useful in the early detection of tumours for early intervention. The tumour antigens are useful as targets for cancer therapy, since selective enhancement of their expression by retinoid treatment relative to normal cells improves the efficacy and therapeutic index of cancer therapeutics directed against these antigens. Antibodies binding to the tumour antigens may be administered for the treatment of various disorders or conditions, including those characterised by overexpression and/or activation of the tumour antigens, where such conditions or disorders include benign tumours; leukaemias and lymphoid malignancies; neuronal, glial, astrocytal, hypothalamic and other glandular, macrophtalgal, epithelial, stromal and blastocoelic disorders. The present sequence represents the human Stra6 protein (PRO10282) which is selectively upregulated by retinoid using the method of the invention. The gene encoding the human Stra6 protein is located on human chromosome 15q23

XX Sequence 667 AA;

SQ

Query Match 65.5%; Score 1110.5; DB 5; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 2.4e-106;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVSLCLTFLVLMRSLYTHR----LGSGGGSD----GQFSWNLPS 42  
 Db 365 CYISALVSLCLTFLVLMRSPLHRSPHPSRQAIFCWMSFS 424

Qy 43 VPLPLPPLAGLLVQQIIFFLGTTALAFLVMPVLHGRNLFFRSLESSWPFWTLALLAVI 102  
 Db 425 AYQTAFIGCLGLLQVQIIFFLGTTALAPFLVMPVLHGRNLFFRSLESSWPFWTLALLAVI 484

Qy 103 LQNMAAHWWVFLFETHDGHPOLTNRRLVYAAATFLLPFLVMPVLHGRNLFFRSLESSWPFWTLALLAVI 544  
 Db 485 LQNMAAHWWVFLFETHDGHPOLTNRRLVYAAATFLLPFLVMPVLHGRNLFFRSLESSWPFWTLALLAVI 544

Qy 150 -SPSIAIRHP----TPGYYYTYRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD 203  
 Db 545 QOMDLSLPPRAATLDPGYYYTYRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQD 604

Qy 204 SLRPGEDEGMQLLQTDSMAKGARGAXGRARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 Db 605 SLRPGEDEGMQLLQTDSMAKGARGPGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664

Qy 264 AQP 266  
 Db 665 AQP 667

RESULT 12  
 ABB05048 Human NOV8C protein SEQ ID NO:32.  
 ID ABB05048 standard; protein; 667 AA.  
 XX AC ABB05048;  
 XX DT 25-MAR-2002 (First entry)  
 XX DE Human NOV8C protein SEQ ID NO:32.  
 KW Human; NOVX; cytostatic; antidiabetic; anorectic; antibacterial;  
 KW fungicide; virucide; protozoacide; analgesic; antiparkinsonian;  
 KW antiasthmatic; hypotensive; osteopathic; antiinflammatory; antiulcer;  
 KW neuroprotective; cardiotonic; antiallergic; antidepressant; nootropic;  
 KW anticonvulsant; neuroleptic; gene therapy; vaccine; immune disease;  
 KW developmental disease; taste and scent detectability disorder; infection;  
 KW Burkitt's lymphoma; signal transduction pathway disorder; pain; cancer;  
 KW retinal disease; feeding disorder; asthma; parkinson's disease; ulcer;  
 KW noninsulin-dependent diabetes mellitus; acute heart failure; hypertension;  
 KW hypertension; urinary retention; osteoporosis; Crohn's disease; allergy;  
 KW multiple sclerosis; angina pectoris; myocardial infarction; delirium;  
 KW benign prostatic hypertrophy; manic depression; dementia; dyskinesia;  
 KW severe metal retardation; Huntington's disease; chromosome 15;  
 XX OS Homo sapiens.  
 XX PN WO200190155-A2.

XX	PD 29-NOV-2001.	Db	425 AYQTAFIGICLGLVQQIIFFLGTTALAFLVMPVLHGRNLLFRSLESSWPFWTLALAVI	484
XX	PF 24-MAY-2001; 2001WO-US017073.	Qy	103 LQNMAAHWVFILETHDGHPOLTNRRLVYATFLLPPLNVLGAMXXXC-----	149
XX	PR 24-MAY-2000; 2000US-0206679P.	Db	485 LQNMAAHWVFILETHDGHPOLTNRRLVYATFLLPPLNVLGAMTWRVLLSALYNAILH	544
PR 24-MAY-2000; 2000US-0206688P.	Qy	150 -SPSIAIRHP----TPGYTYRNFLKIEVSQSHPAMTAFCSSLQQQSLLLPRTMAPQD	203	
PR 30-MAY-2000; 2000US-0207748P.	Db	545 QMDLSLLPPAATLDPGYTYRNFLKIEVSQSHPAMTAFCSSLQQQSLLLPRTMAPQD	604	
PR 30-MAY-2000; 2000US-0207798P.	Qy	204 SLRPGEEDEGMQLLQTQDSMAKGARGXGRARWGLAYTLLHNPTLQVFRTALLGANG	263	
PR 31-MAY-2000; 2000US-0208263P.	Db	605 SLRPGEEDEGMQLLQTQDSMAKGARGXGRARWGLAYTLLHNPTLQVFRTALLGANG	664	
PR 02-JUN-2000; 2000US-0208831P.	Qy	264 AQP 266		
PR 05-JUN-2000; 2000US-0209451P.	Db	665 AQP 667		
PR 07-JUN-2000; 2000US-0210060P.				
PR 20-JUL-2000; 2000US-0219507P.				
PR 26-JUL-2000; 2000US-0221337P.				
PR 31-JUL-2000; 2000US-0221927P.				
PR 19-JAN-2001; 2001US-0263135P.				
PR 24-JAN-2001; 2001US-0263688P.				
PR 24-JAN-2001; 2001US-0263694P.				
PR 23-MAY-2001; 2001US-00863776.				
XX	PA (CURA-) CURAGEN CORP.			
XX	PI Spytek KA, Majumder K, Tchernev VT, Mishra V, Padigaru M;			
XX	PI Spaderna SK, Shenoy S, Rastelli L, Li L, Taupier RJ, Gangolli E;			
XX	DR WPI: 2002-106174/14.			
XX	N-PSDB; ABA92669.			
XX	PT Novel polypeptide, useful for treating pain, cancer, urinary retention, osteoporosis, Crohn's disease, diabetes, acute heart failure, dementia, asthma, ulcer, allergy and Huntington's disease, comprises isolated polypeptide NOVX.			
XX	PT 23-MAY-2001; 2001US-00863776.			
XX	PS			
XX	Claim 1; Page 106; 266pp; English.			
CC	The present invention describes human NOVX proteins (NOV1 to NOV9). NOVX proteins (I) have cytostatic, antidiabetic, amoretic, antibacterial, fungicide, virucide, protozoacide, analgesic, antiparkinsonian, antiasthmatic, hypotensive, osteopathic, antiinflammatory, antiulcer, neuroprotective, cardiant, antiallergic, antidepressant, nootropic, anticonvulsant and neuroleptic activities. (I) and polynucleotides (II) can be used in gene therapy and vaccine production. (I) and (II) can be used for treating or preventing a NOVX-associated disorder such as cardiomypathy, atherosclerosis and diabetes in a human, where the disorder is related to cell signal processing and metabolic pathway modulation, in a subject, preferably human. (I) and (II) can be used for diagnosing, preventing or treating developmental diseases, immune diseases, taste and scent detectability disorder, Burkitt's lymphoma, signal transduction pathway disorders, retinal diseases including those involving photoreception, cell growth rate disorders, feeding disorders, noninsulin-dependent diabetes mellitus, infections, pain, cancer, asthma, Parkinson's disease, acute heart failure, hypertension, multiple sclerosis, urinary retention, osteoporosis, Crohn's disease, Albright Hereditary Osteodystrophy, angina pectoris, ulcers, myocardial infarction, allergies, benign prostatic hypertrophy, manic depression, delirium, dementia, severe metal retardation and dyskinesias, such as Huntington's disease or Gilles de la Tourette syndrome. The present sequence represents the human NOV8c protein from the present invention.			
CC	Human NOV2a is isolated to chromosome 15			
CC	SQ Sequence 667 AA;			
CC	Query Match 65.5%; Score 1110.5; DB 5; Length 667;			
CC	Best Local Similarity 76.6%; Pred. No. 2.4e-106;			
CC	Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;			
CC	PS 1 CYISALVLSCLLTFVLMSLVTTHR----LGSGGGSGD-----GQFSWNLFs 42			
CC	DB 365 CYISALVLSCLLTFVLMSLVTTHRNLRAILHRAALDLSPHRSPHSRQAIFCWMSFS 424			
CC	Qy 43 VPLPLPLLAGLIVQQIIFFLGTTALAFLVMPVLHGRNLLFFRSLESSWPFWTLALAVI 102			
XX	PT New human molecules for disease detection and treatment (MDDT), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant MDDT expression, e.g. cancer, AIDS, asthma, diabetes, hepatitis.			
XX	PT The present invention relates to human proteins and coding sequences of molecules for disease detection and treatment MDDT. The sequences can be used in the treatment of diseases associated with the decreased expression or overexpression of MDDT, such as cell proliferative (cancer,			
XX	PT Claim 1; Page 148-150; 177pp; English.			

CC atherosclerosis, hepatitis), autoimmune/inflammatory (e.g. AIDS, CC allergies, Addison's disease, asthma), developmental (dwarfism, renal tubular acidosis), neurological (e.g. stroke, Parkinson's disease, epilepsy) and cardiovascular (congestive heart failure, myocardial infarction, angina pectoris) disorders. The present sequence is a protein of the invention.

XX Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 5; Length 667;  
Best Local Similarity 76.6%; Pred. No. 2.4e-106;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVSLCLLTFVLMRSLVTHR----LGSGGGD-----GQFSWNLF 42

Db 365 CYISALVSLCLLTFVLMRSLVTHRNLRAHLRGAAALDLSPLRSPRSRQAIFCWMSFS 424

Qy 43 VPLPLPPLAGLLVQQIIFFLGLTTAFLVLMPLVHGRNLLFERSLESSWPFWLTALAVI 102

Db 425 AYQTAFTICLGLLVQQIIFFLGLTTAFLVLMPLVHGRNLLFERSLESSWPFWLTALAVI 484

Qy 103 LQNMAAHWVPLETHDGHGPQLTNRRVLYAATFLLFPNVLVGAMXXXX----- 149

Db 485 LQNMAAHWVPLETHDGHGPQLTNRRVLYAATFLLFPNVLVGAMVATWRVLLSALYNATHL 544

Qy 150 -SPSIAIRHP----TGYYYTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLPRTMAAPQD 203

Db 545 QMDLSLLPPRAATLDPGYTYTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLPRTMAAPQD 604

Qy 204 SLRPGEEDEGMQLIQTQDKSMAKGARGXGRARWGLAYTLHNPTLQVFRKTALLGANG 263

Db 605 SLRPGEEDEGMQLIQTQDKSMAKGARGXGRARWGLAYTLHNPTLQVFRKTALLGANG 664

Qy 264 AQP 266

Db 665 AQP 667

RESULT 14  
ABU80778 standard; protein; 667 AA.

XX ABU80778;  
XX DT 23-JUN-2003 (first entry)

XX DE Human PRO polypeptide #40.

XX KW Human; PRO polypeptide; secreted and transmembrane protein;

KW anti-PRO antibody; diagnostic assay; gene expression; tumour; cytostatic.

XX OS Homo sapiens.

XX PN US2003036635-A1.

XX PD 20-FEB-2003.

XX PF 28-AUG-2002; 2002US-00230163.

XX PR 25-JUL-2000; 2000US-0220638P.

PR 01-JUN-2001; 2001WO-US017800.

PR 29-JUN-2001; 2001WO-US021066.

PR 09-APR-2002; 2002US-00119480.

XX PA (GETH ) GENENTECH INC.

XX PI Baker KP, Desnoyers L, Gerritsen ME, Godowski PJ;

PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;

XX DR 2003-342045/32.

DR N-PSDB; ACA66880.

XX PT One hundred and twenty two nucleic acids encoding PRO polypeptides,

useful for the manufacture of a medicament for diagnosing or treating tumor.

XX PS Claim 11; Fig 80; 314pp; English.

XX The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the diagnosis and treatment of tumours. Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. ABU80739-ABU80860 represent the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at seqdata.uspto.gov/pstpsDIDEntry.html.

XX SQ Sequence 667 AA;

Query Match 65.5%; Score 1110.5; DB 6; Length 667;  
Best Local Similarity 76.6%; Pred. No. 2.4e-106;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVSLCLLTFVLMRSLVTHR----LGSGGGD-----GQFSWNLF 42

Db 365 CYISALVSLCLLTFVLMRSLVTHRNLRAHLRGAAALDLSPLRSPRSRQAIFCWMSFS 424

Qy 43 VPLPLPPLAGLLVQQIIFFLGLTTAFLVLMPLVHGRNLLFERSLESSWPFWLTALAVI 102

Db 425 AYQTAFTICLGLLVQQIIFFLGLTTAFLVLMPLVHGRNLLFERSLESSWPFWLTALAVI 484

Qy 103 LQNMAAHWVPLETHDGHGPQLTNRRVLYAATFLLFPNVLVGAMXXXX----- 149

Db 485 LQNMAAHWVPLETHDGHGPQLTNRRVLYAATFLLFPNVLVGAMVATWRVLLSALYNATHL 544

Qy 150 -SPSIAIRHP----TGYYYTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLPRTMAAPQD 203

Db 545 QMDLSLLPPRAATLDPGYTYTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLPRTMAAPQD 604

Qy 204 SLRPGEEDEGMQLIQTQDKSMAKGARGXGRARWGLAYTLHNPTLQVFRKTALLGANG 263

Db 605 SLRPGEEDEGMQLIQTQDKSMAKGARGXGRARWGLAYTLHNPTLQVFRKTALLGANG 664

Qy 264 AQP 266

Db 665 AQP 667

RESULT 15  
ABO33744 standard; protein; 667 AA.

XX AC ABO33778;

XX DT 17-SEP-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO10282.

XX XX Human; secreted and transmembrane protein; PRO; cytostatic; antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha; chondrocyte stimulator; pericyte stimulator; fibroblast modulator; pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour; liver tumour; bone disorder; cartilage disorder; sports injury; arthritis; wound.

XX OS Homo sapiens.

XX AC ABO33744;

XX DT 17-SEP-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO10282.

XX KW Human; secreted and transmembrane protein; PRO; cytostatic; antiarthritic; osteopathic; gene therapy; TNF-Agonist-Alpha; chondrocyte stimulator; pericyte stimulator; fibroblast modulator; pharmaceutical; diagnostic; biosensor; bioreactor; tumour; lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour; liver tumour; bone disorder; cartilage disorder; sports injury; arthritis; wound.

XX OS Homo sapiens.

XX PN US2003045687-A1.

XX PD 06-MAR-2003.

XX PT 12-AUG-2002; 2002US-00218631.

XX PR 01-JUN-2001; 2001WO-US017800.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-APR-2002; 2002US-00119480.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker RP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ,  
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;  
 XX DR WPI; 2003-512315/48.  
 XX DR N-PSDB ; ACD68632.

PT New genes, and its encoded secreted and transmembrane polypeptides,  
 PT useful for stimulating Tumor Necrosis Factor alpha, or chondrocyte or  
 PT pericyte proliferation, especially for treating lung tumors, arthritis or  
 PT wounds in a mammal.

PS Claim 11; Fig 80; 314pp; English.

XX The invention describes an isolated nucleic acid molecule comprising a sequence with at least 80% identity to: (a) a nucleotide encoding any of 122 PRO (secreted and transmembrane) polypeptides whose sequences are fully defined in the specification; or (b) any of 122 nucleotide sequences having e.g. 4834, 2504 or 1759 bp fully defined in the specification; or the full length coding sequence of any these 122 nucleotide sequences. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting tumours (e.g. lung tumour, colon tumour, breast tumour, prostate tumour, rectal tumour, or liver tumour) in a mammal, for stimulating the release of TNF-alpha from human blood, for stimulating the proliferation or differentiation of chondrocyte cells, for stimulating proliferation of pericyte cells, or for modulating normal human dermal fibroblast proliferation. The PRO nucleic acid or polypeptide is also useful for treating tumours or various bone and/or cartilage disorders (e.g. sports injuries or arthritis), or wounds. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridisation probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. This is the amino acid sequence of a novel human secreted and transmembrane PRO polypeptide

XX Sequence 667 AA;

Query	Match	Score	Length
Qy	65.5%; Best Local Similarity 76.6%; Matches 232; Conservative 4;	1110.5; Pred. No. 2.4e-106; Mismatches 30; Indels 37; Gaps 4;	667;
Db	1 CYTISALVLSCLLTFLVLMSLVTHR----LGSGGGSD-----GQFSWNLF 42 365 CYTISALVLSCLLTFLVLMSLVTHRNLRAHLHRGAALDLSPHLRSPHSRQAIFCWMSFS 424		
Qy	43 VPLPLPLLAGLIVQQIIFFLGTTALAFLVMPVHLGRNLLFFRSLESSWPFWTLALAVI 102		
Db	425 AYQTAFICLGLVQQIIFFLGTTALAFLVMPVHLGRNLLFFRSLESSWPFWTLALAVI 484		
Qy	103 LQNMMAAHWVFLETHDGHPQLTNRRVLYAATFLFPLNVLYGAMXXXXC----- 149		
Db	485 LQNMMAAHWVFLETHDGHPQLTNRRVLYAATFLFPLNVLYGAMVATWRVLLSALYNIAHL 544		
Qy	150 -SPSIAIRHP----TPGYYYTYRNFLKIEVSOSH>PANTAFCSLLLQAOSSLPPRTMAAPQD 203 545 GQMDLSSLPRAATLDPGYYTYRNFLKIEVSQSH>PANTAFCSLLLQAOSSLPPRTMAAPQD 604		
Db	204 SLRPGEEDEGMQLLQTKDSMAKGARGAXRGARWGLAYTLLHNPTLQVFRKTALLGANG 263		
Qy	605 SLRPGEEDEGMQLLQTKDSMAKGARGASGRARWGLAYTLLHNPTLQVFRKTALLGANG 664		
Db	264 AQP 266		
Qy			

Sequence	32299,	A
Sequence	7581,	AP
Sequence	17434,	A
Sequence	7109,	AP
Sequence	41,	Appl
Sequence	1,	Appl
Sequence	37,	Appl
Sequence	11,	Appl
Sequence	11,	Appl
Sequence	11,	Appl
Sequence	22843,	A
Sequence	12,	Appl
Sequence	4728,	AP
Sequence	24536,	A
Sequence	84,	Appl
Sequence	387,	App
Sequence	387,	App
Sequence	387,	App

3D protein - protein search, using SW model  
 Run on: February 8, 2005, 13:30:00 ; Search time 38.4542 Seconds  
 (without alignments)  
 630.905 Million cell updates/sec

Title: US-09-816-653A-4  
Perfect score: 1695  
Sequence: 1 CYISALVLSCLLTFVLMRS.....APPTWLWESQQGFWRKKLVG 325

Scoring table: BLOSUM62  
 Gapon 10.0 · Gapext 0.5

searched: 513545 seqs, 74649064 residues

Maximum DB seq\_length: 2000000000

Post-processing: Minimum Match 0%

Listings first 45

database : Issued\_Patents\_AA:  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep: \*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep: \*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep: \*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep: \*  
5: /cgn2\_6/ptodata/1/iaa/pctmsis\_COMB.pep:  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	440	26.0	88	4 US-09-205-258-274	Sequence 274, App
2	98.5	5.8	157	4 US-09-252-991A-30836	Sequence 30836, A
3	94.5	5.6	726	4 US-09-252-991A-18271	Sequence 18271, A
4	93.5	5.5	422	4 US-09-252-991A-19452	Sequence 19452, A
5	93	5.5	2016	3 US-09-634-920-4	Sequence 4, Appli
6	93	5.5	2016	4 US-09-514-907A-2	Sequence 2, Appli
7	93	5.5	2016	4 US-09-896-994-2	Sequence 2, Appli
8	93	5.5	2016	4 US-09-840-125-4	Sequence 4, Appli
9	92	5.4	1272	4 US-09-949-016-7472	Sequence 7472, AP
10	92	5.4	2146	4 US-09-949-016-6947	Sequence 6947, AP
11	90.5	5.3	557	4 US-09-902-540-12884	Sequence 12884, A
12	90.5	5.3	1241	4 US-08-714-741-34	Sequence 34, Appli
13	90	5.3	327	4 US-09-252-991A-29468	Sequence 29468, A
14	89.5	5.3	275	4 US-09-252-991A-16752	Sequence 16752, A
15	89.5	5.3	434	4 US-09-252-991A-30855	Sequence 30855, A
16	89	5.3	249	4 US-09-602-777A-344	Sequence 344, App
17	88.5	5.2	501	4 US-09-252-991A-32497	Sequence 32497, A
18	87	5.1	618	3 US-08-866-381A-6	Sequence 6, Appli
19	87	5.1	621	1 US-08-208-887A-49	Sequence 49, Appli
20	87	5.1	621	3 US-08-280-598-18	Sequence 18, Appli
21	87	5.1	621	4 US-08-945-771-4	Sequence 4, Appli
22	86.5	5.1	465	4 US-09-496-239A-18	Sequence 18, Appli
23	86	5.1	597	4 US-09-252-991A-24252	Sequence 24252, A
24	85.5	5.0	395	4 US-09-489-039A-12123	Sequence 12123, A
25	85	5.0	809	4 US-09-252-991A-31759	Sequence 31759, A
26	84.5	5.0	299	4 US-09-393-634-41	Sequence 41, Appli
27	84.5	5.0	738	4 US-09-949-016-10957	Sequence 10957, A

RESULT 1  
US-09-205-258-274  
Sequence 274: AD

## ALIGNMENTS

; EARLIER APPLICATION NUMBER: 60/049, 019  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 970  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 972  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 916  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/049, 373  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 875  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/049, 374  
; EARLIER FILING DATE: 1997-06-06  
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; EARLIER APPLICATION NUMBER: 60/048, 949  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 974  
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; EARLIER APPLICATION NUMBER: 60/048, 883  
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; EARLIER APPLICATION NUMBER: 60/048, 897  
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; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/048, 877  
; EARLIER FILING DATE: 1997-06-06  
; EARLIER APPLICATION NUMBER: 60/070, 923  
; EARLIER FILING DATE: 1997-12-18  
; EARLIER APPLICATION NUMBER: 60/092, 921  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/094, 657  
; EARLIER FILING DATE: 1998-07-30  
; NUMBER OF SEQ ID NOS: 1227  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO: 274  
; LENGTH: 88  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (88)  
; OTHER INFORMATION: Xaa equals stop translation  
; US-09-205-258-274

; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenstein et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196-136  
; CURRENT APPLICATION NUMBER: US/09/252, 991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074, 788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094, 190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO: 30836  
; LENGTH: 157  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
; US-09-252-991A-30836

Query Match 5.8%; Score 98.5; DB 4; Length 157;  
Best Local Similarity 33.0%; Pred. No. 0.015;  
Matches 30; Conservative 6; Mismatches 26; Indels 29; Gaps 3;

Qy 195 PRTMAAPQDSLRLPGEEDEGMQLLQQTAKDSMAKGARPGRAXRGRWGLAYTLLHNPLTLQVFR 254  
Db 2 PAARRGCRDRARP-----RPRRSPPAGRPARRGRARRHSTA----- 38

Qy 255 KTALLGANGAQPCSSL--PGSPPSITPAMQP 283  
Db 39 ---TGRRPARPAATLAGPGGGCRPAAP 65

RESULT 3  
US-09-252-991A-18271  
; Sequence 18271, Application US/09252991A  
; Patent No. 6551795

; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenstein et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196-136  
; CURRENT APPLICATION NUMBER: US/09/252, 991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074, 788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094, 190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO: 18271  
; LENGTH: 726  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
; US-09-252-991A-18271

Query Match 5.6%; Score 94.5; DB 4; Length 726;  
Best Local Similarity 31.7%; Pred. No. 0.31;  
Matches 33; Conservative 10; Mismatches 44; Indels 17; Gaps 5;

Qy 194 LPR--TMAAPQDSLRLPGEEDEG--MOLLQTKDSMAKGARPGRAXRGRWGLAYTLLHNPT 249  
Db 273 LPRQGTAVLHRDGPGRPGDPGGDRRLLPDPQAQDQSHPGDPHGRG--GRFRP----- 324

Qy 250 LQVFRKTALLGANGAQPCSSLPGSPSSITPAMQPAGPPDHXGXY 293  
Db 325 ---RRVPLLRQAGLQPGGQLPERQGPL-PRLDPGWPAVHQGPV 363

RESULT 4  
US-09-252-991A-19452  
; Sequence 19452, Application US/09252991A  
; Patent No. 6551795

; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenstein et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

RESULT 2  
US-09-252-991A-30836  
; Sequence 30836, Application US/09252991A  
; Patent No. 6551795

RESULT 6  
US-09-514-907A-2  
Sequence 2, Application US/09514907A  
; Patent No. 6567705  
GENERAL INFORMATION:  
APPLICANT: Kenneth B. Stokes  
Jos. e. Morissette  
TITLE OF INVENTION: SYSTEMS FOR ENHANCING CARDIAC SIGNAL  
SENSING BY CARDIAC PACEMAKERS THROUGH  
GENETIC TREATMENT  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6567705ris LLP  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: U.S.A.  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/514.907A  
FILING DATE: 08-Feb-2000  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul K. Legaard  
REGISTRATION NUMBER: 38,534  
REFERENCE/DOCKET NUMBER: MEDT-0029/P-3586  
TELECOMMUNICATION INFORMATION:  
PHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2016 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-514-907A-2  
Query Match 5.5%; Score 93; DB 4; Length 2016;  
Best Local Similarity 23.8%; Pred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;  
QY 35 QFSWNLFPSVPLPPLPAGLIVQQIIFFLGTTALAFVLMPLHGRNLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVILSLMEGLSRMSNL---SVLRSFRLRVLAKSWPTL 825  
QY 95 -----LTLLAVILQNMMAAHW-----FLETIDGHGPQLTNR---RVLY 129  
Db 778 QQGWNIFD-----SIIVILSLMEGLSRMSNL---SVLRSFRLRVLAKSWPTL 825  
QY 35 QFSWNLFPSVPLPPLPAGLIVQQIIFFLGTTALAFVLMPLHGRNLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVILSLMEGLSRMSNL---SVLRSFRLRVLAKSWPTL 825  
QY 95 -----LTLLAVILQNMMAAHW-----FLETIDGHGPQLTNR---RVLY 129  
Db 826 NTLIKIGNSVGALGNLTVLIAIVFIFAVVMQLEFGKNTSELRSDFSGLLPRWHMMDF 885  
QY 130 AATFLLFPLNVLGAMXXXCSPSIAIRHPTPGYTYRNFLKIEVSQSHPAMTAFCSSLQ 189  
Db 886 HAFLIF--RILCGEWIETMDCMEVSGQS--LCLLVFLVMVIGNLUVVNLNFLALLS 940  
QY 190 AQSLLPRTMAAPPQDSLPGAXRGARWGLAYTLL-HNP 248

RESULT 5  
US-09-634-920-4  
Sequence 4, Application US/09634920  
; Patent No. 6342357  
GENERAL INFORMATION:  
APPLICANT: Splawski, Igor  
APPLICANT: Keating, Mark T.  
TITLE OF INVENTION: ALTERATIONS IN THE LONG QT SYNDROME GENES KVLOQT1 AND  
KVLOQT2 AND METHODS FOR DETECTING SAME  
TITLE OF INVENTION: SCNSA AND METHODS FOR DETECTING SAME  
FILE REFERENCE: 2323-155  
CURRENT APPLICATION NUMBER: US/09/634,920  
CURRENT FILING DATE: 2000-08-09  
PRIOR APPLICATION NUMBER: 60/190,057  
PRIOR FILING DATE: 2000-03-17  
PRIOR APPLICATION NUMBER: 60/147,488  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 2016  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-634-920-4  
Query Match 5.5%; Score 93; DB 3; Length 2016;  
Best Local Similarity 23.8%; Pred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;  
QY 35 QFSWNLFPSVPLPPLPAGLIVQQIIFFLGTTALAFVLMPLHGRNLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVILSLMEGLSRMSNL---SVLRSFRLRVLAKSWPTL 825  
QY 95 -----LTLLAVILQNMMAAHW-----FLETIDGHGPQLTNR---RVLY 129  
Db 826 NTLIKIGNSVGALGNLTVLIAIVFIFAVVMQLEFGKNTSELRSDFSGLLPRWHMMDF 885  
QY 130 AATFLLFPLNVLGAMXXXCSPSIAIRHPTPGYTYRNFLKIEVSQSHPAMTAFCSSLQ 189  
Db 886 HAFLIF--RILCGEWIETMDCMEVSGQS--LCLLVFLVMVIGNLUVVNLNFLALLS 940  
QY 190 AQSLLPRTMAAPPQDSLPGAXRGARWGLAYTLL-HNP 248

RESULT 6  
US-09-514-907A-2  
Sequence 2, Application US/09514907A  
; Patent No. 6567705  
GENERAL INFORMATION:  
APPLICANT: Kenneth B. Stokes  
Jos. e. Morissette  
TITLE OF INVENTION: SYSTEMS FOR ENHANCING CARDIAC SIGNAL  
SENSING BY CARDIAC PACEMAKERS THROUGH  
GENETIC TREATMENT  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6567705ris LLP  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: U.S.A.  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/514.907A  
FILING DATE: 08-Feb-2000  
CLASSIFICATION: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul K. Legaard  
REGISTRATION NUMBER: 38,534  
REFERENCE/DOCKET NUMBER: MEDT-0029/P-3586  
TELECOMMUNICATION INFORMATION:  
PHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2016 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-514-907A-2  
Query Match 5.5%; Score 93; DB 4; Length 2016;  
Best Local Similarity 23.8%; Pred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

RESULT 7  
US-09-896-994-2  
Sequence 2, Application US/09896994  
Patent No. 6665563  
GENERAL INFORMATION:  
APPLICANT: Ken Stokes  
TITLE OF INVENTION: SYSTEMS AND METHODS FOR ENHANCING CARDIAC SIGNAL SENSING BY CARDIAC PACEMAKERS THROUGH GENETIC TREATMENT  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and No. 6665563ris  
STREET: One Liberty Place - 46th Floor  
CITY: Philadelphia  
STATE: PA  
COUNTRY: U.S.A.  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/896,994  
FILING DATE: 02-Jul-2001  
CLASSIFICATION DATA:  
PRIORITY APPLICATION NUMBER: <Unknown>  
APPLICATION NUMBER: 09/514,907  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul K. Legaard  
REGISTRATION NUMBER: 38,534  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 568-3100  
TELEFAX: (215) 568-3439  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2016 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-896-994-2

RESULT 8  
US-09-840-125-4  
Sequence 4, Application US/09840125  
Patent No. 6787309  
GENERAL INFORMATION:  
APPLICANT: Spialawski, Igor  
APPLICANT: Keating, Mark T.  
TITLE OF INVENTION: ALTERATIONS IN THE LONG QT SYNDROME GENES KVLOQT1 AND KVLOQT2 FOR DETECTING SAME  
FILE REFERENCE: 2323-155  
CURRENT APPLICATION NUMBER: US/09/840,125  
CURRENT FILING DATE: 2001-04-24  
PRIOR APPLICATION NUMBER: 09/634,920  
PRIOR FILING DATE: 2000-08-09  
PRIOR APPLICATION NUMBER: 60/147,488  
PRIOR FILING DATE: 1999-08-09  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 2016  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-840-125-4

Query Match 5.5%; Score 93; DB 4; Length 2016;  
Best Local Similarity 23.8%; Fred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

Qy 35 QFSWNLFSVPLPLPLLAGLIVQQIIFLGGTTALAFVLMPVHLGRNLLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVTSLMEGLSRMSNL---SVLRSFRLLRVEFKLAKSWPTL 825

Qy 95 -----LTLLAVLQLNMAAHWV----FLETHDGHPLQLTNR--RVLY 129  
Db 826 NTLIKIGNSVGAFLGNLTLVIAITVIFIAVVGMLFGKNYSELRLDSGGLRPRWHMMDFP 885

Qy 130 AATFLLFPLNVLGAMXXXCSPSIAAIRHPTPGYYTYRNFLKIEVSQSHPAMTAFCSSLHQ 189  
Db 886 HAFLIF--RILGEWIETMDCMEVSGQS--LCLLVFLVMVIGNLUVLNFLALLIS 940

Qy 190 AQSLLPRTMAAPQDSLRLPGEDEGMQLLQTKDMSAKGARPGXARGRARWGLAYTLL-HNP 248  
Db 941 SF-----ADNLTAPDEDRMNNLQL--ALARIQTRGLRFVKRTTWDFCCGLLRHHP 989

Qy 249 TLQVRKTALLGANGAQP-CSSLPGSPSSITPAMQPAGPPD 288  
Db 990 -----QRPAALAAQGQLPSCIATPYSP-----PPE 1015

Query Match 5.5%; Score 93; DB 4; Length 2016;  
Best Local Similarity 23.8%; Fred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

Qy 35 QFSWNLFSVPLPLPLLAGLIVQQIIFLGGTTALAFVLMPVHLGRNLLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVTSLMEGLSRMSNL---SVLRSFRLLRVEFKLAKSWPTL 825

Qy 95 -----LTLLAVLQLNMAAHWV----FLETHDGHPLQLTNR--RVLY 129  
Db 826 NTLIKIGNSVGAFLGNLTLVIAITVIFIAVVGMLFGKNYSELRLDSGGLRPRWHMMDFP 885

Qy 130 AATFLLFPLNVLGAMXXXCSPSIAAIRHPTPGYYTYRNFLKIEVSQSHPAMTAFCSSLHQ 189  
Db 886 HAFLIF--RILGEWIETMDCMEVSGQS--LCLLVFLVMVIGNLUVLNFLALLIS 940

Qy 190 AQSLLPRTMAAPQDSLRLPGEDEGMQLLQTKDMSAKGARPGXARGRARWGLAYTLL-HNP 248  
Db 941 SF-----ADNLTAPDEDRMNNLQL--ALARIQTRGLRFVKRTTWDFCCGLLRHHP 989

Qy 249 TLQVRKTALLGANGAQP-CSSLPGSPSSITPAMQPAGPPD 288  
Db 990 -----QRPAALAAQGQLPSCIATPYSP-----PPE 1015

Query Match 5.5%; Score 93; DB 4; Length 2016;  
Best Local Similarity 23.8%; Fred. No. 1.8;  
Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

Qy 35 QFSWNLFSVPLPLPLLAGLIVQQIIFLGGTTALAFVLMPVHLGRNLLFFRSLESSWPFW 94  
Db 778 QQGWNIFD-----SIIVTSLMEGLSRMSNL---SVLRSFRLLRVEFKLAKSWPTL 825

Qy 95 -----LTLLAVLQLNMAAHWV----FLETHDGHPLQLTNR--RVLY 129  
Db 826 NTLIKIGNSVGAFLGNLTLVIAITVIFIAVVGMLFGKNYSELRLDSGGLRPRWHMMDFP 885

Qy 130 AATFLLFPLNVLGAMXXXCSPSIAAIRHPTPGYYTYRNFLKIEVSQSHPAMTAFCSSLHQ 189  
Db 886 HAFLIF--RILGEWIETMDCMEVSGQS--LCLLVFLVMVIGNLUVLNFLALLIS 940

Qy 190 AQSLLPRTMAAPQDSLRLPGEDEGMQLLQTKDMSAKGARPGXARGRARWGLAYTLL-HNP 248  
Db 941 SF-----ADNLTAPDEDRMNNLQL--ALARIQTRGLRFVKRTTWDFCCGLLRHHP 989

Qy 249 TLQVRKTALLGANGAQP-CSSLPGSPSSITPAMQPAGPPD 288

; LENGTH: 1272  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7472

Query Match 5.4%; Score 92; DB 4; Length 1272;  
Best Local Similarity 25.3%; Pred. No. 1.2;  
Matches 80; Conservative 48; Mismatches 126; Indels 62; Gaps 17;

Qy . 3 ISALVLSCL---LTF----LVLMRSIYT--HRLGSGGSD----GQFSWNL--FSV 43  
Db 660 VDVLVSICVVFAMSFPASFTLVLIEERVTRAKHLQLMGLSPTLYWLGNFLWDMCNLYL 719

Qy 44 PLPLPPLAGLLVQQLIFFLGTTAFLVMPVLUHGRNL---FRSLESSWPFWLT 96  
Db 720 PACIVVLIFLAFFQORA-YVAPANLPALLLILLYGWSITPLMYPASFFFVSPSTAYVLT 778

Qy 97 -LALAVILQNMAAHWVFLETHDGHPOLTNRRLVYAAFFLFLPVLNVL-VGAMXXXCSPSIA 154  
Db 779 CINLFIGINGSMATFVLELFSQDKLQEVSR-ILKQVFLIFPHFCIGRGLIDMVRNQAMA 836

Qy 155 IRHPTPGYYTYRNFLKIEVQSII-----PAMTAFCSSLQOQSLL--PRTMAAPQD 203  
Db 837 DAFERLGDRQFQSPLRWEVYGNLQAMVIQGPLFLLF-TLLLQHRSQQLPQFRVRSLPP- 893

Qy 204 SLRPGEDEGMQLLQTDSMAKGARGP----AXRGRARWGLAYTLHNPQLQVF 253  
Db 894 -LIGEDE--DVARERERVYQOGATQGDVLVLRNLTKVYRGQRMPAVDRLLCIGIPGECF 949

Qy 254 RKTALLGANGAQPCSS 269  
Db 950 --GLLGVNNGAGKTST 962

RESULT 10  
US-09-949-016-6947  
Sequence 6947, Application US/09949016  
Patent No. 6812339

GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949, 016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241, 755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237, 768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231, 498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 6947  
LENGTH: 2146  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-6947

Query Match 5.4%; Score 92; DB 4; Length 2146;  
Best Local Similarity 25.3%; Pred. No. 2.5;  
Matches 80; Conservative 48; Mismatches 126; Indels 62; Gaps 17;

Qy . 3 ISALVLSCL---LTF----LVLMRSIYT--HRLGSGGSD----GQFSWNL--FSV 43  
Db 1534 VDVLVSICVVFAMSFPASFTLVLIEERVTRAKHLQLMGLSPTLYWLGNFLWDMCNLYL 1593

Qy 44 PLPLPPLAGLLVQQLIFFLGTTAFLVMPVLUHGRNL---FRSLESSWPFWLT 96  
Db 1594 PACIVVLIFLAFFQORA-YVAPANLPALLLILLYGWSITPLMYPASFFFVSPSTAYVLT 1652

Qy 97 -LALAVILQNMAAHWVFLETHDGHPOLTNRRLVYAAFFLFLPVLNVL-VGAMXXXCSPSIA 154

RESULT 11  
US-09-902-540-12884  
Sequence 12884, Application US/09902540  
Patent No. 6833447

GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
CURRENT APPLICATION NUMBER: US/09/902, 540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217, 883  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 12884  
LENGTH: 557  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-12884

Query Match 5.3%; Score 90.5; DB 4; Length 557;  
Best Local Similarity 30.9%; Pred. No. 0.58;  
Matches 50; Conservative 11; Mismatches 52; Indels 49; Gaps 10;

Qy . 5 ALVLSCLLTFLVLMRSLVTHRIGSGGG----SGDGQFSWNLFSVPLPPLLAGLLVQQII 59  
Db 242 AAQLATSLLLAPMAMLVWTALGRAGRGRVLSAGKG----LSSRPFPLGRGLV---- 291

Qy 60 FFLGTTA--AFLVLMPVLUHGRNLFFRSLESSWP---FWLTLALAVLQNMMAHW--VF 112  
Db 292 -LGAVSMTAAVVLVPL---GAILLTSLQRSFGAAALTWTETLTL----THWAGVL 337

Qy 113 LETHDGHPOLTNRRLVYAAFFLFLPVLNVGAMXXXCSPSIA 154  
Db 338 LEPRTLH--ATGRSVLLAA----GAGVLUVGLGLA 366

RESULT 12  
US-08-714-741-34  
Sequence 34, Application US/08714741  
Patent No. 6500613

GENERAL INFORMATION:  
APPLICANT: Briles, David E.  
APPLICANT: McDaniel, Larry S.  
APPLICANT: Swiatlo, Edwin  
APPLICANT: Yother, Janet  
APPLICANT: Crain, Marilyn J.  
APPLICANT: Hollingshead, Susan  
APPLICANT: Tart, Rebecca  
APPLICANT: Brooks-Walter, Alexis  
TITLE OF INVENTION: PNEUMOCOCCAL GENES, PORTIONS THEREOF, EXPRESSION PRODUCTS THEREFROM, AND USES OF SUCH GENES,  
TITLE OF INVENTION: EXPRESSION PRODUCTS THEREFROM, AND USES OF SUCH GENES,  
TITLE OF INVENTION: PORTIONS AND PRODUCTS  
NUMBER OF SEQUENCES: 47  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Curtis, Morris & Safford, P.C.



Db 140 GSRPSTAAPAQTNAGMPARAMIALCEVAPPRAVRMPAT-RWASRR 184

RESULT 15  
 US-09-252-991A-30855  
 ; Sequence 30855, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 30855  
 ; LENGTH: 434  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-30855

Query Match 5.3%; Score 89.5; DB 4; Length 434;  
 Best Local Similarity 25.7%; Pred. No. 0.53;  
 Matches 53; Conservative 14; Mismatches 80; Indels 59; Gaps 11;  
 Db 9 QAPAGTWWLQVGTQRGHHOFQVFATLLRARLLGAEVFADVPLQHFV----- 54

Qy 104 QNMMAHWVF-LETHDGHPQ-----LTNRVLYAATFLLFPLNVY GAMXXXCSPIAIR 156  
 Db 9 QAPAGTWWLQVGTQRGHHOFQVFATLLRARLLGAEVFADVPLQHFV----- 54

Qy 157 HPTPGYYTYRNFLKIEVSQSHPAMTAFCSSLQAQSILLPRTMAAFQDSSLRPGEEDECMLQI 216  
 Db 55 HQA----VHRTADRRDLHQHRRFAAALFQRLLQRPG----- PGDAAHPRQE----L 98

Qy 217 LQTKDSMAKGARGAXRGRAR---WGLAYTLLHNPTLQVFRKTALLGANGAQPCSSLPGGS 273  
 Db 99 LLPMGDM-----GHRSLLKVIYWGIVY-----FRLDRTVANARHPDYPAAP 141

Qy 274 PPSITPAMQPAGPPDPHX-GXVEVCLH 298  
 Db 142 FPSVRPG-QPAGRAQHALGGIAHRLH 166

Search completed: February 8, 2005, 13:42:12  
 Job time : 40.4542 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model  
 Run on: February 8, 2005, 13:32:20 ; Search time 108.54 Seconds  
 (without alignments)  
 975.246 Million cell updates/sec

Title: US-09-816-653A-4  
 Perfect score: 1695  
 Sequence: 1 CYISALVLSCLLTFVLAMRS.....APPTWLWESQQGFWRKKLVG 325

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 1373511 seqs, 325702437 residues

Total number of hits satisfying chosen parameters: 1373511

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications AA:  
 1: /cgn2\_6/ptodata/2/pubpaa/us07\_PUBCOMB.pep: \*  
 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep: \*  
 3: /cgn2\_6/ptodata/2/pubpaa/US06\_\_NEW\_PUB.pep: \*  
 4: /cgn2\_6/ptodata/2/pubpaa/us06\_PUBCOMB.pep: \*  
 5: /cgn2\_6/ptodata/2/pubpaa/us07\_\_NEW\_PUB.pep: \*  
 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep: \*  
 7: /cgn2\_6/ptodata/2/pubpaa/us08\_\_NEW\_PUB.pep: \*  
 8: /cgn2\_6/prodata/2/pubpaa/us08\_PUBCOMB.pep: \*  
 9: /cgn2\_6\_ptodata/2/pubpaa/us09A\_PUBCOMB.pep: \*  
 10: /cgn2\_6\_ptodata/2/pubpaa/us09B\_PUBCOMB.pep: \*  
 11: /cgn2\_6\_ptodata/2/pubpaa/us09C\_PUBCOMB.pep: \*  
 12: /cgn2\_6\_ptodata/2/pubpaa/us10D\_PUBCOMB.pep: \*  
 13: /cgn2\_6\_ptodata/2/pubpaa/us10A\_PUBCOMB.pep: \*  
 14: /cgn2\_6\_ptodata/2/pubpaa/us10B\_PUBCOMB.pep: \*  
 15: /cgn2\_6\_ptodata/2/pubpaa/us10C\_PUBCOMB.pep: \*  
 16: /cgn2\_6\_ptodata/2/pubpaa/us10D\_PUBCOMB.pep: \*  
 17: /cgn2\_6\_ptodata/2/pubpaa/us10\_NEW\_PUB.pep: \*  
 18: /cgn2\_6\_ptodata/2/pubpaa/us11\_NEW\_PUB.pep: \*  
 19: /cgn2\_6\_ptodata/2/pubpaa/us60\_NEW\_PUB.pep: \*  
 20: /cgn2\_6\_ptodata/2/pubpaa/us60\_PUBCOMB.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## ALIGNMENTS

RESULT 1  
 US-09-816-653A-4  
 ; Sequence 4, Application US/09816653A  
 ; Publication No. US20030021788A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rastelli, Luca  
 ; INVENTION: NOVEL HUMAN STRA6-LIKE PROTEIN AND NUCLEIC ACIDS ENCODING THE SA  
 ; FILE REFERENCE: 10716/57  
 ; CURRENT APPLICATION NUMBER: US/09/816,653A  
 ; CURRENT FILING DATE: 2001-03-23  
 ; PRIOR APPLICATION NUMBER: 60/191,532  
 ; PRIOR FILING DATE: 2000-03-23  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 4  
 ; LENGTH: 325  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens hstrA6 polypeptide fragment, carboxy terminus  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (146)..(148)  
 ; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (232)..(232)  
 ; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (292)..(292)  
 ; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (302)..(302)  
 ; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown  
 ; NAME/KEY: MISC FEATURE

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1679	99.1	325	Sequence 4, Appli
2	1110.5	65.5	560	Sequence 69, Appli
3	1110.5	65.5	599	Sequence 2306, Appli
4	1110.5	65.5	667	Sequence 2, Appli
5	1110.5	65.5	667	Sequence 2, Appli
6	1110.5	65.5	667	Sequence 32, Appli
7	1110.5	65.5	667	Sequence 67, Appli
8	1110.5	65.5	667	Sequence 80, Appli
9	1110.5	65.5	667	Sequence 80, Appli
10	1110.5	65.5	667	Sequence 80, Appli
11	1110.5	65.5	667	Sequence 80, Appli
12	1110.5	65.5	667	Sequence 80, Appli
13	1110.5	65.5	667	Sequence 80, Appli

; LOCATION: (303) .. (303)  
; OTHER INFORMATION: Xaa represents any amino acid, other, or unknown  
US-09-816-653A-4

Query Match 99.1%; Score 1679; DB 10; Length 325;  
Best Local Similarity 100.0%; Pred. No. 1e-148;  
Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60  
Db 1 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60

Qy 61 FLGTTALAFLVMPVLHGRNLLFFRSLESWPFWLTLAVILQNMMAAHWVFLETHDGHP 120  
Db 61 FLGTTALAFLVMPVLHGRNLLFFRSLESWPFWLTLAVILQNMMAAHWVFLETHDGHP 120

Qy 121 QLTNRVLYAAATFLLFPLNVLGAMXXXCSPSTAIRHPTPGYTYTNRNFLKIEVSQSHPAM 180  
Db 121 QLTNRVLYAAATFLLFPLNVLGAMXXXCSPSTAIRHPTPGYTYTNRNFLKIEVSQSHPAM 180

Qy 181 TAFCSCLLQAOSLLPRTMAAPQDSLRLPGEDEGMQLIQTDSMAKGARPAGAXRGRARWGL 240  
Db 181 TAFCSCLLQAOSLLPRTMAAPQDSLRLPGEDEGMQLIQTDSMAKGARPAGAXRGRARWGL 240

Qy 241 AYTLLNPTLQFRKTALLGANGAQPCSSLPGSPPSITPAMQAPGPPDHGXVEVCLHWE 300  
Db 241 AYTLLNPTLQFRKTALLGANGAQPCSSLPGSPPSITPAMQAPGPPDHGXVEVCLHWE 300

Qy 301 PXXGSAAPPFWLWEQQGFWRKLVG 325  
Db 301 PXXGSAAPPFWLWEQQGFWRKLVG 325

RESULT 2  
US-09-863-776-69  
Sequence 69, Application US/09863776  
Publication No. US20030198953A1

GENERAL INFORMATION:  
APPLICANT: Spytek, Kimberly A  
APPLICANT: Majumder, Kumud  
APPLICANT: Tchernev, Velizar T  
APPLICANT: Mishra, Vishnu  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Spaderna, Steven K  
APPLICANT: Shenoj, Suresh G  
APPLICANT: Rastelli, Luca  
APPLICANT: Li, Li  
APPLICANT: Taupier, Raymond J  
APPLICANT: Gangoli, Esha

TITLE OF INVENTION: No. US20030198953A1el Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 21402-020

CURRENT APPLICATION NUMBER: US/09/863,776  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: 09/540,763  
PRIOR FILING DATE: 2000-03-30  
PRIOR APPLICATION NUMBER: 60/206,679  
PRIOR FILING DATE: 2000-05-24  
PRIOR APPLICATION NUMBER: 60/206,688  
PRIOR FILING DATE: 2000-05-24  
PRIOR APPLICATION NUMBER: 60/206,829  
PRIOR FILING DATE: 2000-05-24  
PRIOR APPLICATION NUMBER: 60/207,748  
PRIOR FILING DATE: 2000-05-30  
PRIOR APPLICATION NUMBER: 60/207,798  
PRIOR FILING DATE: 2000-05-30  
PRIOR APPLICATION NUMBER: 60/208,263  
PRIOR FILING DATE: 2000-06-02  
PRIOR APPLICATION NUMBER: 60/209,451  
PRIOR FILING DATE: 2000-06-05  
PRIOR APPLICATION NUMBER: 60/210,060  
PRIOR FILING DATE: 2000-06-07

; PRIOR APPLICATION NUMBER: 60/219,507  
; PRIOR FILING DATE: 2000-07-20  
; PRIOR APPLICATION NUMBER: 60/221,337  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: 60/221,927  
; PRIOR FILING DATE: 2000-07-31  
; PRIOR APPLICATION NUMBER: 60/263,135  
; PRIOR FILING DATE: 2001-01-19  
; PRIOR APPLICATION NUMBER: 60/263,688  
; PRIOR FILING DATE: 2001-01-24  
; PRIOR APPLICATION NUMBER: 60/263,694  
; PRIOR FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 155  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 69  
; LENGTH: 560  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-863-776-69

Query Match 65.5%; Score 1110.5; DB 10; Length 560;  
Best Local Similarity 76.6%; Pred. No. 3.4e-95;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60  
Db 258 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60

Qy 42 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60  
Db 378 CYISALVLSCLLTFVLMRSLVTHRIGSCSGDQFSWNLFPSVPLPPLAGLLVQQIF 60

Qy 103 LQNMAAHWVFELETHDGHPQLTNRRVLYAATFLLFPLNVLVGAMXXXCSPSTAIRHPTPGYTYTNRNFLKIEVSQSHPAM 180  
Db 378 LQNMAAHWVFELETHDGHPQLTNRRVLYAATFLLFPLNVLVGAMXXXCSPSTAIRHPTPGYTYTNRNFLKIEVSQSHPAM 180

Qy 150 -SPSIAIRHP----TPGYTYTNRNFLKIEVSQSHPAMTAFCSSLQOASLLPRTMAAPQD 203  
Db 438 GMDLSSLPPRAATLDPGYTYTNRNFLKIEVSQSHPAMTAFCSSLQOASLLPRTMAAPQD 497

Qy 204 SLRPGEEDEGMQLLOTKDSMAKGARPAGXRGARWGLAYTLLHNPTLQVFRKTALLGANG 263  
Db 498 SLRPGEEDEGMQLLOTKDSMAKGARPAGXRGARWGLAYTLLHNPTLQVFRKTALLGANG 557

Qy 264 AQP 266  
Db 558 AQP 560

RESULT 3  
US-10-104-047-2306  
Sequence 2306, Application US/10104047  
Publication No. US20030236392A1

GENERAL INFORMATION:  
APPLICANT: HELIX RESEARCH INSTITUTE  
TITLE OF INVENTION: No. US20030236392A1el full length cDNA  
FILE REFERENCE: H1-A0105  
CURRENT APPLICATION NUMBER: US/104,047  
CURRENT FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 2306  
; LENGTH: 599  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-2306

Query Match 65.5%; Score 1110.5; DB 15; Length 599;  
Best Local Similarity 76.6%; Pred. No. 3.7e-95;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

1 CYISALVSLCLTFVLMRSLVTHR----LGSGGSGD-----QFWSNLFS 42  
 297 CYISALVSLCLTFVLMRSLVTHRNLRAFLHRGAAALDLSPHLRSPHSRQAIFCWMMSFS 356

43 VPLPLPPLAGLIVQQIIFGLTTALAFLVLMPLVHGRNLLFPRSLLESSWPFWLTALAVI 102  
 357 AYQTAFICLGLLQQIIFGLTTALAFLVLMPLVHGRNLLFPRSLLESSWPFWLTALAVI 416

103 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMXXXC-----149  
 417 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMVATWRVLLSALYNAIHL 476

150 -SPSIAIRHP----TPGYTYTBNFLKIEVSQSHPAMTAFCSSLQAOQSLLPRTMAAPQD 203  
 477 QMDLSLLPRAATLDPGYYTBNFLKIEVSQSHPAMTAFCSSLQAOQSLLPRTMAAPQD 536

204 SLRPGEDEGMQLQTKDSMAKGARGPAGXGRARWGLAYTLLHNPTLQVRKTALLGANG 263  
 537 SLRPGEDEGMQLQTKDSMAKGARGPAGSRRGRARWGLAYTLLHNPTLQVRKTALLGANG 596

264 AQP 266  
 597 AQP 599

RESULT 4  
 US-09-759-056-2  
 ; Sequence 2, Application US/09759056  
 ; Patent No. US20020156252A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pennica, Diane  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: No. US20020156252A1el STRA6 Polypeptides  
 ; FILE REFERENCE: GENERT 2827A2  
 ; CURRENT APPLICATION NUMBER: US/09/759, 056  
 ; CURRENT FILING DATE: 2001-01-11  
 ; PRIOR APPLICATION NUMBER: 60/197089  
 ; PRIOR FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/175849  
 ; PRIOR FILING DATE: 2000-01-13  
 ; PRIOR APPLICATION NUMBER: 60/228914  
 ; PRIOR FILING DATE: 2000-08-29  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO: 2  
 ; LENGTH: 667  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-901-812-2

Query Match 65.5%; Score 1110.5; DB 9; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

1 CYISALVSLCLTFVLMRSLVTHR----LGSGGSGD-----QFWSNLFS 42  
 365 CYISALVSLCLTFVLMRSLVTHRNLRAFLHRGAAALDLSPHLRSPHSRQAIFCWMMSFS 424

43 VPLPLPPLAGLIVQQIIFGLTTALAFLVMPVLHGRNLLFFRSLESSWPFWLTALAVI 102  
 425 AYQTAFICLGLLQQIIFGLTTALAFLVMPVLHGRNLLFFRSLESSWPFWLTALAVI 484

103 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMXXXC-----149  
 485 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMVATWRVLLSALYNAIHL 544

150 -SPSIAIRHP----TPGYTYTBNFLKIEVSQSHPAMTAFCSSLQAOQSLLPRTMAAPQD 203  
 365 CYISALVSLCLTFVLMRSLVTHRNLRAFLHRGAAALDLSPHLRSPHSRQAIFCWMMSFS 424

43 VPLPLPPLAGLIVQQIIFGLTTALAFLVMPVLHGRNLLFFRSLESSWPFWLTALAVI 102  
 425 AYQTAFICLGLLQQIIFGLTTALAFLVMPVLHGRNLLFFRSLESSWPFWLTALAVI 484

103 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMXXXC-----149  
 485 LQNMAAHWVLETHDGHPQLTNRRLVYATFLLFPLNVLGAMVATWRVLLSALYNAIHL 544

150 -SPSIAIRHP----TPGYTYTBNFLKIEVSQSHPAMTAFCSSLQAOQSLLPRTMAAPQD 203  
 365 QMDLSLLPRAATLDPGYYTBNFLKIEVSQSHPAMTAFCSSLQAOQSLLPRTMAAPQD 604

204 SLRPGEDEGMQLQTKDSMAKGARGPAGXGRARWGLAYTLLHNPTLQVRKTALLGANG 263  
 605 SLRPGEDEGMQLQTKDSMAKGARGPASRRGRARWGLAYTLLHNPTLQVRKTALLGANG 664

264 AQP 266  
 665 AQP 667

RESULT 6  
 US-09-863-776-32  
 ; Sequence 32, Application US/09863776  
 ; Publication No. US2003019895A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Spytek, Kimberly A  
 ; APPLICANT: Majumder, Kumud  
 ; APPLICANT: Tchernev, Velizar T



Db 365 CYISALVSLCLTFLVMSLVTHRTNLRALHRAAALDLSPLHRSPHPSRQAIFCWMSFS 424  
 Qy 43 VPLPLPPLAGLQQQIIFPLGTTALAFLVMPVLHGRLNLLFRSLESSWPFWLTALAVI 102  
 Db 425 AYQTAFTICLGLLVQQLIFFLGTGTTALAFLVMPVLHGRLNLLFRSLESSWPFWLTALAVI 484  
 Qy 103 LQNMAAHWVPLETHDGHQQLTNRRLVYAAATFLLFPLNVLVGAMXXXC----- 149  
 Db 485 LQNMAAHWVPLETHDGHQQLTNRRLVYAAATFLLFPLNVLVGAMVATWRVLLSALYNALHL 544  
 Qy 150 -SPSIAIRHP----TPGYTTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLFRTMAAPQD 203  
 Db 545 GQMDLSLLPPRAATLDPGTYTYRNFLKIEVSQSHPAMTAFCSSLQQAQSLLFRTMAAPQD 604  
 Qy 204 SLRPGEEDEGMQLLQTQDSMAKGARGAXRGRARWGLAYTLHNPNTLQVRKTALLGANG 263  
 Db 605 SLRPGEEDEGMQLLQTQDSMAKGARGAXRGRARWGLAYTLHNPNTLQVRKTALLGANG 664  
 Qy 264 AQP 266  
 Db 665 AQP 667

---

**RESULT 8**  
 US-10-227-884-80  
 ; Sequence 80, Application US/10227884  
 ; Publication No. US20030027988A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Philippe F.  
 ; APPLICANT: Watanabe, Colin L.  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 FILE REFERENCE: P3530PIC79  
 CURRENT APPLICATION NUMBER: US/10/227,884  
 CURRENT FILING DATE: 2002-08-26  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/081819  
 PRIOR FILING DATE: 1998-04-15  
 PRIOR APPLICATION NUMBER: 60/081955  
 PRIOR FILING DATE: 1998-04-15  
 PRIOR APPLICATION NUMBER: 60/082804  
 PRIOR FILING DATE: 1998-04-22  
 PRIOR APPLICATION NUMBER: 60/084441  
 PRIOR FILING DATE: 1998-05-06

PRIOR FILING DATE: 1998-10-28  
 PRIOR APPLICATION NUMBER: 60/106248  
 PRIOR FILING DATE: 1998-10-29  
 PRIOR APPLICATION NUMBER: 60/106464  
 PRIOR FILING DATE: 1998-10-30  
 PRIOR APPLICATION NUMBER: 60/106905  
 PRIOR FILING DATE: 1998-11-03  
 PRIOR APPLICATION NUMBER: 60/108787  
 PRIOR FILING DATE: 1998-11-17  
 PRIOR APPLICATION NUMBER: 60/108801  
 PRIOR FILING DATE: 1998-11-17  
 PRIOR APPLICATION NUMBER: 60/108849  
 PRIOR FILING DATE: 1998-11-18  
 PRIOR APPLICATION NUMBER: 60/112422  
 PRIOR FILING DATE: 1998-12-15  
 PRIOR APPLICATION NUMBER: 60/113296  
 PRIOR FILING DATE: 1998-12-22  
 PRIOR APPLICATION NUMBER: 60/113605  
 PRIOR FILING DATE: 1998-12-23  
 PRIOR APPLICATION NUMBER: 60/113621  
 PRIOR FILING DATE: 1998-12-23  
 PRIOR APPLICATION NUMBER: 60/115558  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/115565  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/115733  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/119549  
 PRIOR FILING DATE: 1999-02-10  
 PRIOR APPLICATION NUMBER: 60/123618  
 PRIOR FILING DATE: 1999-03-10  
 PRIOR APPLICATION NUMBER: 60/125259  
 PRIOR FILING DATE: 1999-03-19  
 PRIOR APPLICATION NUMBER: 60/125775  
 PRIOR FILING DATE: 1999-03-23  
 PRIOR APPLICATION NUMBER: 60/126773  
 PRIOR FILING DATE: 1999-03-29  
 PRIOR APPLICATION NUMBER: 60/127887  
 PRIOR FILING DATE: 1999-04-05  
 PRIOR APPLICATION NUMBER: 60/130232  
 PRIOR FILING DATE: 1999-04-21  
 PRIOR APPLICATION NUMBER: 60/131022  
 PRIOR FILING DATE: 1999-04-26  
 PRIOR APPLICATION NUMBER: 60/131270  
 PRIOR FILING DATE: 1999-04-27  
 PRIOR APPLICATION NUMBER: 60/131291  
 PRIOR FILING DATE: 1999-04-27  
 PRIOR APPLICATION NUMBER: 60/131445  
 PRIOR FILING DATE: 1999-04-28  
 PRIOR APPLICATION NUMBER: 60/134287  
 PRIOR FILING DATE: 1999-05-14  
 PRIOR APPLICATION NUMBER: 60/140650  
 PRIOR FILING DATE: 1999-06-22  
 PRIOR APPLICATION NUMBER: 60/144758  
 PRIOR FILING DATE: 1999-07-20  
 PRIOR APPLICATION NUMBER: 60/145698  
 PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: 60/146222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: 60/146963  
 PRIOR FILING DATE: 1999-08-03  
 PRIOR APPLICATION NUMBER: 60/149320  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/149638  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/151733  
 PRIOR FILING DATE: 1999-08-31  
 PRIOR APPLICATION NUMBER: 60/164418  
 PRIOR FILING DATE: 1999-11-09

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVLSCLLTFLVLMRSLVTHR----LGSGGGSD-----GQFSWNLFS 42  
 Db 365 CYISALVLSCLLTFLVLMRSLVTHRQAIFCWMSRS 424

Qy 43 VPLPLPPLAGLLVQQIIFFLGLTTALAFLVLMPVLHGRNLFFRSLESSWPFWTLALAVI 102  
 Db 425 AYQTAFICIGLLVQQIIFFLGLTTALAFLVLMPVLHGRNLFFRSLESSWPFWTLALAVI 484

Qy 103 LQNMAAHWVFLFLETHDGHQPQLTNRREVLYATTFLLFPNVLVGAMXXXC----- 149  
 Db 485 LQNMAAHWVFLFLETHDGHQPQLTNRREVLYATTFLLFPNVLVGAMVATWRVLLSALYNATHL 544

Qy 150 -SPSIAIRHP----TPGYTYTYRNFLKIEVSQSHPAFTAFCSSLQQAQSLLPRTMMAAPQD 203  
 Db 545 GQMDLSSLPPRAATLDPGYYTYRNFLKIEVSQSHPAFTAFCSSLQQAQSLLPRTMMAAPQD 604

Qy 204 SLRPGEEDEGMQLLQTKDSSMAKGARPQGAYRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 Db 605 SLRPGEEDEGMQLLQTKDSSMAKGARPQGASRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664

Qy 264 AQP 266  
 Db 665 AQP 667

RESULT 9  
 US-10-230-163-80  
 Sequence 80, Application US/10230163  
 Publication No. US20030036635A1  
 GENERAL INFORMATION:  
 1. APPLICANT: Baker, Kevin P.  
 2. APPLICANT: Desnoyers, Luc  
 3. APPLICANT: Gerritsen, Mary  
 4. APPLICANT: Goddard, Audrey  
 5. APPLICANT: Godowski, Paul J.  
 6. APPLICANT: Grimaldi, J. Christopher  
 7. APPLICANT: Gurney, Austin L.  
 8. APPLICANT: Smith, Victoria  
 9. APPLICANT: Stephan, Jean-Philippe F.  
 10. APPLICANT: Watanabe, Colin L.  
 11. APPLICANT: Wood, William I.  
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ACIDS ENCODING THE SAME  
 FILE REFERENCE: P3530P1C96  
 CURRENT APPLICATION NUMBER: US/10/230,163  
 CURRENT FILING DATE: 2002-08-28  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294

PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/081819  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081955  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/084441  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/085323  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: 60/085579  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/086392  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089905  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090691  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/095302  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/095916  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/095318  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/095916  
PRIOR FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: 60/096146  
PRIOR FILING DATE: 1998-08-11  
PRIOR APPLICATION NUMBER: 60/096791  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: 60/097986  
PRIOR FILING DATE: 1998-08-26  
PRIOR APPLICATION NUMBER: 60/098544  
PRIOR FILING DATE: 1998-08-31  
PRIOR APPLICATION NUMBER: 60/099596  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: 60/099811  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: 60/099812  
PRIOR FILING DATE: 1998-09-10  
PRIOR APPLICATION NUMBER: 60/099816  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100390  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/100627  
PRIOR FILING DATE: 1998-09-16  
PRIOR APPLICATION NUMBER: 60/100848  
PRIOR FILING DATE: 1998-09-18  
PRIOR APPLICATION NUMBER: 60/100919  
PRIOR FILING DATE: 1998-09-17

PRIOR FILING DATE: 1999-07-26  
 PRIOR APPLICATION NUMBER: 60/146222  
 PRIOR FILING DATE: 1999-07-28  
 PRIOR APPLICATION NUMBER: 60/146963  
 PRIOR FILING DATE: 1999-08-03  
 PRIOR APPLICATION NUMBER: 60/149320  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/149638  
 PRIOR FILING DATE: 1999-08-17  
 PRIOR APPLICATION NUMBER: 60/151733  
 PRIOR FILING DATE: 1999-08-31  
 PRIOR APPLICATION NUMBER: 60/164418  
 PRIOR FILING DATE: 1999-11-09  
 PRIOR APPLICATION NUMBER: 60/166361  
 PRIOR FILING DATE: 1999-11-16  
 PRIOR APPLICATION NUMBER: 60/169445  
 PRIOR FILING DATE: 1999-12-07  
 PRIOR APPLICATION NUMBER: 60/169495  
 PRIOR FILING DATE: 1999-12-07  
 PRIOR APPLICATION NUMBER: 60/169835

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

Qy 1 CYISALVSLCLTFLVLMRSLVTHR----LGSGGSSGD-----GOFSWNLFS 42  
 Db 365 CYISALVSLCLTFLVLMRSLVTHRNLRAHLRGAA LDLSPLHRSRQAIFCWMSFS 424

Qy 43 VPLPLPPLAGLIVQQIIFFLGLTTAALFLVLTMPVLHGRNLLFRSLESSWPFWTLALAVI 102  
 Db 425 AYQTAFICLGLIVQQIIFFLGLTTAALFLVLTMPVLHGRNLLFRSLESSWPFWTLALAVI 484

Qy 103 LQNMAAHWVFLETHDGHQPQLTNRRVLYATFLLFPNVLYGAMXXXC----- 149  
 Db 485 LQNMAAHWVFLETHDGHQPQLTNRRVLYATFLLFPNVLYGAMVATWRVLLSALYNIAHL 544

Qy 150 -SPS1AIRHP---TPGYTYRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 203  
 Db 545 QMDLSSLPPRAATLDPGYYTYRNFLKIEVSQSHPANTAFCSLLLQAQSLLPRTMAAPQD 604

Qy 204 SLRPGEEDEGMQLQTKDSMAKGARPGRARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 Db 605 SLRPGEEDEGMQLQTKDSMAKGARPGRARWGLAYTLLHNPTLQVFRKTALLGANG 664

Qy 264 AQP 266  
 Db 665 AQP 667

RESULT 10  
 US-10-230-338-80  
 Sequence 80, Application US/10230338  
 Publication No. US20030044934A1

GENERAL INFORMATION:  
 / APPLICANT: Baker, Kevin P.  
 / APPLICANT: Desnoyers, Luc  
 / APPLICANT: Gerritsen, Mary  
 / APPLICANT: Goddard, Audrey  
 / APPLICANT: Godowski, Paul J.  
 / APPLICANT: Grimaldi, J. Christopher  
 / APPLICANT: Gurney, Austin L.  
 / APPLICANT: Smith, Victoria  
 / APPLICANT: Stephan, Jean-Philippe F.  
 / APPLICANT: Watanabe, Colin L.  
 / APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 FILE REFERENCE: P3530P1C92  
 CURRENT APPLICATION NUMBER: US/10/230,338  
 CURRENT FILING DATE: 2002-08-28  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09

RESULT 11  
 US-10-218-631-80  
 Sequence 80, Application US/10218631  
 Publication No. US20030045687A1

GENERAL INFORMATION:  
 / APPLICANT: Baker, Kevin P.  
 / APPLICANT: Desnoyers, Luc  
 / APPLICANT: Gerritsen, Mary  
 / APPLICANT: Goddard, Audrey  
 / APPLICANT: Godowski, Paul J.  
 / APPLICANT: Grimaldi, J. Christopher  
 / APPLICANT: Gurney, Austin L.  
 / APPLICANT: Smith, Victoria  
 / APPLICANT: Stephan, Jean-Philippe F.  
 / APPLICANT: Watanabe, Colin L.  
 / APPLICANT: Wood, William I.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 FILE REFERENCE: P3530P1C92  
 CURRENT APPLICATION NUMBER: US/10/230,338  
 CURRENT FILING DATE: 2002-08-28  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09

FILE REFERENCE: P3530P1C14  
 CURRENT APPLICATION NUMBER: US/10/218,631  
 CURRENT FILING DATE: 2002-08-12  
 PRIOR APPLICATION NUMBER: 10/119,480  
 PRIOR FILING DATE: 2002-04-09  
 PRIOR APPLICATION NUMBER: 60/059113  
 PRIOR FILING DATE: 1997-09-17  
 PRIOR APPLICATION NUMBER: 60/062287  
 PRIOR FILING DATE: 1997-10-17  
 PRIOR APPLICATION NUMBER: 60/063549  
 PRIOR FILING DATE: 1997-10-28  
 PRIOR APPLICATION NUMBER: 60/064103  
 PRIOR FILING DATE: 1997-10-31  
 PRIOR APPLICATION NUMBER: 60/069873  
 PRIOR FILING DATE: 1997-12-17  
 PRIOR APPLICATION NUMBER: 60/078910  
 PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/079294  
 PRIOR FILING DATE: 1998-03-25  
 PRIOR APPLICATION NUMBER: 60/079656  
 PRIOR FILING DATE: 1998-03-26  
 PRIOR APPLICATION NUMBER: 60/079728  
 PRIOR FILING DATE: 1998-03-27  
 Remaining Prior Application data removed - See File Wrapper or PALM.  
 NUMBER OF SEQ ID NOS: 246  
 SEQ ID NO: 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-10-218-631-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;  
 SEQ ID NO: 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-10-230-414-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;  
 SEQ ID NO: 80  
 LENGTH: 667  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-10-230-414-80

Qy 1 CYISALVLSCLLTFLVLMRSLVTHR----LGSGGGD-----GQFSWNLFS 42  
 Db 365 CYISALVLSCLLTFLVLMRSLVTHRNLRLHRAAQLDLSPHLRSPHSRQAIFCWMSFS 424  
 Qy 43 VPLPLPPLAGLLVQQIIFFLGTTALAFLVLMPLVHGRNLLFFRSLESSWPPWLTLLAVI 102  
 Db 425 AYQTAFTICLGLLQVQIIFFLGTTALAFLVLMPLVHGRNLLFFRSLESSWPPWLTLLAVI 484  
 Qy 103 LQNMAAHWVFLETHDGHGPQLTNRRVLYATFLLFPLNVLGAMXXXC-----  
 Db 485 LQNMAAHWVFLETHDGHGPQLTNRRVLYATFLLFPLNVLGAMVATWRVLLSALYNAIL 544  
 Qy 150 -SPSIAIRHP----TPGYYYTYRNFLKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 203  
 Db 545 GQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLIQAQSLLPRTMAAPQD 604  
 Qy 204 SLRPGEDEGMQLLQTKDSMAKGARGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 263  
 Db 605 SLRPGEDEGMQLLQTKDSMAKGARGAXRGRARWGLAYTLLHNPTLQVFRKTALLGANG 664  
 Qy 264 AQP 266  
 Db 665 AQP 667  
 Qy 264 AQP 266  
 Db 665 AQP 667

RESULT 12  
 US-10-230-414-80  
 Sequence 80, Application US/10230414  
 Publication No. US20030050448A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria

RESULT 13  
 US-10-232-224-80  
 Sequence 80, Application US/10232224  
 Publication No. US20030065147A1  
 GENERAL INFORMATION:  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Smith, Victoria  
 APPLICANT: Stephan, Jean-Philippe F.  
 APPLICANT: Wood, William I.  
 APPLICANT: Watanabe, Colin L.

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

CURRENT APPLICATION NUMBER: US/10/232,224

PRIOR APPLICATION NUMBER: 10/119,480

CURRENT FILING DATE: 2002-08-29

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: 60/059113

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/062287

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063549

PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/064103

PRIOR FILING DATE: 1997-10-31

PRIOR APPLICATION NUMBER: 60/069873

PRIOR FILING DATE: 1997-12-17

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294

PRIOR FILING DATE: 1998-03-25

PRIOR APPLICATION NUMBER: 60/079656

PRIOR FILING DATE: 1998-03-26

PRIOR APPLICATION NUMBER: 60/079728

PRIOR FILING DATE: 1998-03-27

PRIOR FILING DATE: 1998-03-27

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 246

SEQ ID NO: 80

LENGTH: 667

TYPE: PRT

ORGANISM: Homo Sapien

US-10-232-224-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFVLMSLVTHR----LGSGGGSD-----GQFSWNLF 42  
 DB 365 CYISALVLSCLLTFVLMSLVTHRGAALDLSPHPSRQAIFCWSMSFS 424

QY 43 VPLPLPPLAGLIVQQIIFFLGTTALAFLVLMMPVHLGRNLLFFRSLESSWPFWLTLALAVI 102  
 DB 425 AYQTAFIGLGLVQQIIFFLGTTALAFLVLMMPVHLGRNLLFFRSLESSWPFWLTLALAVI 484

QY 103 LQNMAAHWVFLETHDGHQPOLTNRRLVYATFLLFPLNVLYGAMXXXC-----149  
 DB 485 LQNMAAHWVFLETHDGHQPOLTNRRLVYATFLLFPLNVLYGAMVATWRVLLSALYNIAHL 544

QY 150 -SPSIAIRHP----TPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 203  
 DB 545 GQMDLSSLPRAATLDPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 263  
 DB 605 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 664

QY 264 AQP 266  
 DB 665 AQP 667

QY 204 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 263  
 DB 605 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 664

QY 150 -SPSIAIRHP----TPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 203  
 DB 545 GQMDLSSLPRAATLDPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 604

QY 264 AQP 266  
 DB 665 AQP 667

RESULT 14  
 US-10-216-159A-80  
 ; Sequence 80, Application US/10216159A

; Publication No. US20030069397A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Gerritsen, Mary  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Philippe F.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Watanabe, Colin L.  
 ; APPLICANT: Watanabe, Jean-Philippe F.  
 ; APPLICANT: Watanabe, William I.  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3530P1C6  
 ; CURRENT APPLICATION NUMBER: US/10/216,159A  
 ; CURRENT FILING DATE: 2002-08-09  
 ; PRIOR APPLICATION NUMBER: 10/119,480  
 ; PRIOR FILING DATE: 2002-04-09  
 ; PRIOR APPLICATION NUMBER: 60/059113  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/062287  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/063549  
 ; PRIOR FILING DATE: 1997-10-28  
 ; PRIOR APPLICATION NUMBER: 60/064103  
 ; PRIOR FILING DATE: 1997-10-31  
 ; PRIOR APPLICATION NUMBER: 60/069873  
 ; PRIOR FILING DATE: 1997-12-17  
 ; PRIOR APPLICATION NUMBER: 60/078910  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/079294  
 ; PRIOR FILING DATE: 1998-03-25  
 ; PRIOR APPLICATION NUMBER: 60/079656  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR APPLICATION NUMBER: 60/079728  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR FILING DATE: 1998-03-26  
 ; PRIOR FILING DATE: 1998-03-27  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 246  
 ; SEQ ID NO: 80  
 ; LENGTH: 667  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 ; US-10-216-159A-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;  
 QY 1 CYISALVLSCLLTFVLMSLVTHR----LGSGGGSD-----GQFSWNLF 42  
 DB 365 CYISALVLSCLLTFVLMSLVTHRGAALDLSPHPSRQAIFCWSMSFS 424

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
 Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
 Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;

QY 1 CYISALVLSCLLTFVLMSLVTHR----LGSGGGSD-----GQFSWNLF 42  
 DB 365 CYISALVLSCLLTFVLMSLVTHRGAALDLSPHPSRQAIFCWSMSFS 424

QY 43 VPLPLPPLAGLIVQQIIFFLGTTALAFLVLMMPVHLGRNLLFFRSLESSWPFWLTLALAVI 102  
 DB 425 AYQTAFIGLGLVQQIIFFLGTTALAFLVLMMPVHLGRNLLFFRSLESSWPFWLTLALAVI 484

QY 103 LQNMAAHWVFLETHDGHQPOLTNRRLVYATFLLFPLNVLYGAMXXXC-----149  
 DB 485 LQNMAAHWVFLETHDGHQPOLTNRRLVYATFLLFPLNVLYGAMVATWRVLLSALYNIAHL 544

QY 150 -SPSIAIRHP----TPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 203  
 DB 545 GQMDLSSLPRAATLDPGYYTYRNFLKIEVSOSHPTAFCSSLLOAQSLLPRTMAAPQD 604

QY 204 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 263  
 DB 605 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 664

QY 264 AQP 266  
 DB 665 AQP 667

QY 204 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 263  
 DB 605 SLRPGEEDEGMQLQTKDSMAKGARGXGRARWGLAYTLLHNPTLQFRKTALLGANG 664

RESULT 15  
US-10-218-849-80  
Sequence 80, Application US/10218849  
Publication No. US20030073814A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gerritsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME  
FILE REFERENCE: P3530P1C11  
CURRENT APPLICATION NUMBER: US/10/218, 849  
CURRENT FILING DATE: 2002-08-12  
Prior Application removed - See File Wrapper or Palm  
NUMBER OF SEQ ID NOS: 246  
SEQ ID NO 80  
LENGTH: 667  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-218-849-80

Query Match 65.5%; Score 1110.5; DB 14; Length 667;  
Best Local Similarity 76.6%; Pred. No. 4.2e-95;  
Matches 232; Conservative 4; Mismatches 30; Indels 37; Gaps 4;  
Qy 1 CYISALVLSCLITFLVLMRSVLTHR----LGSGSGD-----GQFSWNILFS 42  
Db 365 CYISALVLSCLITFLVLMRSVLTHRNLRLHRAALDLSPHRSPHSRQAIFCWMSFS 424  
Qy 43 VPLPLPLLAGLLVQQIIFFLGTTTALAFLVLMPLVHGRNLLFRSLESSWPPWLTTLALAVI 102  
Db 425 AYQTAFTICLGLLQVQIIFFLGTTTALAFLVLMPLVHGRNLLFRSLESSWPPWLTTLALAVI 484  
Qy 103 LQNMAAHWVFLETHDGHPQLTNRRVLYATFLLFPLNVLVGAMXXXC----- 149  
Db 485 LQNMAAHWVFLETHDGHPQLTNRRVLYATFLLFPLNVLVGAMVATWRVLLSALYNATHL 544  
Qy 150 -SPSIAIRHP----TPGYYYTYRNFLKIEVSQSHPAMTAFCSLLIQAOQSLIPRTMAAPQD 203  
Db 545 GQMDLSSLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLIQASLIPRTMAAPQD 604  
Qy 204 SLRPGEEDEGMQLLQTKDSMAKGARGAXRGRARWGLAYTLHNPITLQVFRKTALLGANG 263  
Db 605 SLRPGEEDEGMQLLQTKDSMAKGARGAXRGRARWGLAYTLHNPITLQVFRKTALLGANG 664  
Qy 264 AQP 266  
Db 665 AQP 667

Search completed: February 8, 2005, 13:45:13  
Job time : 109.54 secs

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protein - protein search, using SW model

on on : February 8, 2005, 13:29:35 ; Search time 31.6317 Seconds  
(without alignments)

Call 1-888-380-8880 or visit [www.bees.com](http://www.bees.com)

הנתקה מהתפקידים הדרושים במקומות העבודה

scoring table: BLOSUM62

תְּמִימָנָה וְעַמְמָנָה יְהוָה יְהוָה יְהוָה יְהוָה יְהוָה יְהוָה

searched: 283416 seqs, 96216763 residues  
total number of hits satisfying chosen parameters: 283416

minimum DB seq length: 0

מִנְדָּבָר וְמִתְּבָרָךְ נָא

Maximum Match 100%  
Listing first 45 summaries

database : PIR 79 : \*;

```
1: Eir1:*
2: Eir2:*
3: Eir3:*
```

pir4: \* the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

CLIMMATES

result No.	Query Match	Length	DB	ID	Description
	Score				
1	96.5	5.7	593	2	probable thiamin A
2	93	5.5	2016	2	sodium channel protein
3	91.5	5.4	581	2	cytochrome-c oxidase
4	90.5	5.3	625	2	regulatory protein
5	89.5	5.3	107	2	probable cytochrom
6	89.5	5.3	107	2	probable cytochrome
7	89.5	5.3	268	2	hypothetical prote
8	89	5.3	3164	1	UL36 protein - hum
9	88.5	5.2	107	2	hypothetical prote
10	88.5	5.2	395	2	probable inner me
11	87	5.1	621	2	growth factor rece
12	86.5	5.1	301	2	hypothetical prote
13	86	5.1	528	2	iron(III)-transpor
14	86	5.1	582	2	conserved hypothet
15	86	5.1	614	2	hypothetical prote
16	85.5	5.0	340	2	hypothetical prote
17	85.5	5.0	402	2	probable membrane
18	84.5	5.0	166	2	hypothetical prote
19	84.5	5.0	230	2	cytochrome-c oxidase
20	84.5	5.0	332	2	NADH2 dehydrogenas
21	84.5	5.0	377	2	probable acyltrans
22	84.5	5.0	636	2	probable ABC-type
23	84.5	5.0	1011	2	probable ABC-type
24	84	5.0	291	2	sulfate transport
25	84	5.0	321	2	NADH2 dehydrogenas
26	84	5.0	477	2	probable amino aci
27	84	5.0	527	1	sfub protein - Ser
28	84	5.0	585	2	probable acid-CoA
29	83	4.9	222	1	hypothetical prote

Query Match	Score	DB	Length
Best Local Similarity	5.7%		593;
Pred. No.	23.0%		1.7;
Matches	61; Conservative		
Qy	3 ISALVLSCLL----TFLVLMLRSLVTHRLGGGGDQFSWNLNFSVPLPPLAGLLVQQI	58	
Db	120 LCSAVLACAVGFGAAFFVCRSLRARALFPA----	LCAIPLAIFPL-----	161
Qy	59 IFFLGTTLAFLVLMPLVHGRNLFFRSLESSWPF-----	WLTLLALA	100
Db	162 ----TMALAFLLSF----GKNGILCRTLGLWLGVSTPRTFLYASGVVIAHAWYNFPLA	-----CSP	212
Qy	101 VILQNMAAHWVFLETHDGHQPQLTNR--RVLYAATFLLFPLNVLGAMXXX-----	-----LPALAGALRSSSELVFLYCF	151
Db	213 LAIIARAWNTISADAEDARILLGARAYRVFTIT-----	267	
Qy	152 SIAI-----RHPTPGYYTYRNFLKIEVSQSHP-----	AMTAFCSSLIL-----	188
Db	268 SLMMVLLIGGTFTTLEVLYRS---IRTQAAHPYASTLALSQTFYALLMINGVSTEESQ	-----:	324
Qy	189 QAQSLLPRTMAAPQDSLRPGEEDEG	-----:	213
Db	325 QACSCVARTRPFLPTOSTICGNIERIG	-----:	349

RESULT 2  
A38195 sodium channel protein hHI, cardiac - human  
N:Alternate names: tetrodotoxin-insensitive, voltage-dependent sodium channel,  
C:Species: Homo sapiens (man)  
C:Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 09-Jul-2004

C;Accession: A38195  
 R;Gellens, M.E.; George Jr., A.L.; Chen, L.Q.; Chahine, M.; Horn, R.; Barchi, R.L.; Kall  
 Proc. Natl. Acad. Sci. U.S.A. 89, 54-558, 1992  
 A;Title: Primary structure and functional expression of the human cardiac tetrodotoxin-  
 i  
 A;Reference number: A38195; MUID:92115699; PMID:1309946  
 A;Accession: A38195  
 A;Status: nucleic acid sequence not shown  
 A;Molecule type: mRNA  
 A;Residues: 1-2016 <GEL>  
 A;Cross-references: UNIPROT:Q14524; GB:M77235; NID:9184038; PIDN:AAA58644.1; PID:9184039

Query Match 5.5%; Score 93; DB 2; Length 2016;  
 Best Local Similarity 23.8%; Pred. No. 14;  
 Matches 67; Conservative 31; Mismatches 113; Indels 70; Gaps 13;

Qy 35 QFSWNLFVPLPPILAGLIVQQIIFFLGGTTALAFLVLMPLHGRNLLEFRSLESSWPFW 94  
 Db 778 QQGWNIFD-----SIIVTSLMELGLSRMSNL---SVLRSFRLRFLAKSWPTL 825

Qy 95 -----LTIALAVILQNMMAAHWV-----FLETHDGHPLQLTRN---RVLY 129  
 Db 826 NTLIKIGNSVGALGNLTLVLAIVFIFAVVGMOLFGKNYSELRRDSGGLPRWHMMDF 885

Qy 130 AATFLLFPLNVLGAMXXXCSPSIAIRHPTPGYTYTNRNFLKIEVSQSHPAMTAFCSSLQQ 189  
 Db 886 HAFLIIF--RILGEWIETMWDCMEVSGQS--LCLLVLFLVMVIGNLVLVNLFLALLS 940

Qy 190 AQSLLPRTMAAPQDSLRLPGEEDEGMQLLQTDSMARGKARPGRAXRGRARGLAYTLL-HNP 248  
 Db 941 SFS----ADNLTAPDEDRMNLQI--ALARIQRLRFVKRRTTWDFCCGLLRHRP 989

Qy 249 TLQVERKTALLGANGAQP-CSSLPGSPPSITPAMQPAGPPD 288  
 Db 990 ----QKPAALAQQGQLPSCTATPYSP-----PPE 1015

RESULT 3  
 T44942 cytochrome-c oxidase (EC 1.9.3.1) chain I [similarity] - Natronobacterium pharaonis  
 N;Alternate names: ba3-type cytochrome-c oxidase chain I  
 C;Species: Natronobacterium pharaonis  
 C;Date: 21-Jan-2000 #sequence\_revision 21-Jan-2000 #text\_change 09-Jul-2004  
 C;Accession: T44942  
 R;Mattar, S.; Engelhardt, M.  
 Eur. J. Biochem. 250, 332-341, 1997  
 A;Title: Cytochrome ba3 from *Natronobacterium pharaonis*: An archaeal four-subunit cytoch  
 A;Reference number: 222876; MUID:98088958; PMID:9428682  
 A;Accession: T44942  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: DNA  
 A;Residues: 1-581 <MAT>  
 A;Cross-references: UNIPROT:O07289; EMBL:Y10500; PIDN:CAA71525.1  
 A;Experimental source: strain SP1/28  
 C;Genetics:  
 A;Gene: cbaa  
 C;Superfamily: cytochrome-c oxidase chain I; cytochrome-c oxidase chain I homology  
 C;Keywords: copper; electron transfer; heme; iron; magnesium; membrane-associated comple  
 F;228-232/Cross-link: 1'-histidyl-3'-tyrosine (His-Tyr) #status predicted  
 F;379/Binding site: heme a3 iron (His) (axial ligand) #status predicted

Query Match 5.4%; Score 91.5; DB 2; Length 581;  
 Best Local Similarity 26.6%; Pred. No. 4.5;  
 Matches 63; Conservative 32; Mismatches 89; Indels 53; Gaps 15;

Qy 6 LVLSCLLTFLVLMRSLVTHRUGSGSGDGFOSWMNLFSVPLPLPPLAGLIVQQIIFFLGTT 65  
 Db 300 LLPLPSLLTAFTVVASMEHGARQRGGS--GYFGW-LRALFWRDPPVFTGMALAGLMF---A 352

Qy 66 ALAFLVLMPLHGRNLLEFRSLESSW---PFWLTLALAVILQNMMAAHWVFILETHDGHPO 121

Db 353 AAAFSGM--VNAGMNINYL--VHNNTWWVYGHFHLTVGTAVALTMAVSYWFL-----PQ 402  
 Qy 122 LTNRR-----VLYAATPLLF-PLNVLVGAAXXXCSPSIAIRHPTPGYTYRNFLKIEVQ 175  
 Db 403 ITGKKLWGKSVALLAQVVLMPVQMTFMSNAMHRSGLAGMPRRTAEP---QXRNF-EFEMAA 458  
 Qy 176 SH---PAMTAFCSSLQAQSLL-----PRTMAAPQ--DSLPGEED 211  
 Db 459 GSLGELNAQVVLGGILLFVSTLFLVYVMTVLGDKAEPGTLPANEYADTL-SGPED 514

RESULT 4  
 S18420 regulatory protein nifa - Azospirillum brasiliense  
 C;Species: Azospirillum brasiliense  
 C;Date: 13-Jan-1995 #sequence\_revision 13-Jan-1995 #text\_change 09-Jul-2004  
 C;Accession: S18420  
 R;Liang, Y.Y.; Kaminski, P.A.; Elmerich, C.  
 Mol. Microbiol. 5, 2735-2744, 1991  
 A;Title: Identification of a nifa-like regulatory gene of *Azospirillum brasiliense* Sp7 ex  
 A;Reference number: S18420; MUID:92140038; PMID:1779763  
 A;Accession: S18420  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-625 <LI>  
 A;Cross-references: UNIPROT:P306667; EMBL:X60714; NID:g38677; PIDN:CAA43126.1; PID:g38678  
 C;Genetics:  
 A;Gene: nifa  
 C;Superfamily: Response regulator (sigma54-dependent transcriptional activator), FhlA ty  
 C;Keywords: DNA binding; P-loop; transcription regulation  
 F;205-426/Domain: RNA polymerase sigma factor interaction domain homology <SF1>  
 F;233-240/Region: nucleotide-binding motif A (P-loop) #status atypical  
 F;300-304/Region: nucleotide-binding motif B

Query Match 5.3%; Score 90.5; DB 2; Length 625;  
 Best Local Similarity 27.7%; Pred. No. 5.9;  
 Matches 48; Conservative 9; Mismatches 55; Indels 61; Gaps 9;

Qy 184 CSLLIQAQSLL--PRTMAAPQDSLRLPGEEDEGMQLLQTKDSMAKGA-----RPG---- 230  
 Db 447 CSLNLNCNSSVLFQYRTLQGASVGGLAP-----SMGEGAINRVPPGRPGGPAA 492

Qy 231 -----AXGRGRARWGLAYTLLHNPFLQFRKTALLGANG---AQP 266  
 Db 493 ANAPKTPAMPAPVPEPAGAAAARGRP---ARRVVPPLAGRRLRRA-GGSGPPDPACP 546

Qy 267 CSSLFGSPPSITPAMQPAGPDHGXKVECLHWEPXGSAPFTWLWESQQGFW 319  
 Db 547 CPSRAPLPPQAPPSPAAAAPP---AAEVPLD-EPESGSLRDRILLWAMERTGW 595

RESULT 5  
 C91079 probable cytochrome oxidase subunit [imported] - Escherichia coli (strain O157:H7, subst  
 C;Species: Escherichia coli  
 C;Date: 18-Jul-2001 #sequence\_revision 18-Jul-2001 #text\_change 09-Jul-2004  
 C;Accession: C91079  
 R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Yokoyama, K.; Han, C.G.  
 Gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.  
 DNA Res. 8, 11-22, 2001  
 A;Title: Complete genome sequence of enterohemorrhagic *Escherichia coli* O157:H7 and geno  
 A;Reference number: A99629; MUID:21156231; PMID:11258796  
 A;Accession: C91079  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-107 <HAY>  
 A;Cross-references: UNIPROT:Q8X7Y2; GB:BA000007; PIDN:BAB37026.1; PID:g13363074; GSPDB:C  
 A;Experimental source: strain O157:H7, substrain RIMD 0509952  
 C;Genetics:  
 A;Gene: ECs3603  
 C;Superfamily: uncharacterized conserved protein YPO33363  
 Query Match 5.3%; Score 89.5; DB 2; Length 107;

Best Local Similarity 24.6%; Pred. No. 0.96; Matches 28; Conservative 21; Mismatches 34; Indels 31; Gaps 5;

Qy . 33 DGQFSWNLFVSVPLPPLAGLIVQQIIFLGLTTALAFLVLMPPVLI-HGRNLFLFRSLESSW 91  
Db 18 DEETTWS-----LPGAVV-----.SLMDGKLRYSIVFTLMTVGIMFGAL 101

RESULT 6  
D85924 probable cytochrome oxidase subunit ygbE [imported] - Escherichia coli (strain O157:H7, C;Species: Escherichia coli  
C;Date: 16-Feb-2001 #sequence\_revision 16-Feb-2001 #text\_change 09-Jul-2004  
C;Accession: D85924  
A;Residues: 1-107 <STO>  
A;Cross-references: UNIPROT:Q8X7Y2; GB:AE005174; NID:912517203; PIDN:AAG57856.1; GSPDB:G  
A;Experimental source: strain O157:H7, substrain EDL933  
C;Genetics:  
A;Gene: ygbE  
C;Superfamily: uncharacterized conserved protein YPO3363

Query Match 5.3%; Score 89.5; DB 2; Length 107;  
Best Local Similarity 24.6%; Pred. No. 0.96;  
Matches 28; Conservative 21; Mismatches 34; Indels 31; Gaps 5;

Qy . 33 DGQFSWNLFVSVPLPPLAGLIVQQIIFLGLTTALAFLVLMPPVLI-HGRNLFLFRSLESSW 91  
Db 18 DEETTWS-----LPGAVV-----.SLMDGKLRYSIVFTLMTVGIMFGAL 101

RESULT 7  
S34364 hypothetical protein X - Salmonella typhimurium (fragment)  
C;Species: Salmonella typhimurium  
C;Date: 13-Jan-1995 #sequence\_revision 13-Jan-1995 #text\_change 08-Oct-1999  
C;Accession: S34364  
R;Persson, B.C.; Bjork, G.R.  
A;Description: Isolation of a gene (miaE) involved in hydroxylation of msr2io6A in tRNA C  
A;Reference number: S34359  
A;Status: preliminary  
A;Molecule type: DNA  
A;Cross-references: EMBL:X73368; NID:g312705; PIDN:CAA51785.1; PID:g312711

Query Match 5.3%; Score 89.5; DB 2; Length 268;  
Best Local Similarity 26.2%; Pred. No. 2.7;  
Matches 37; Conservative 20; Mismatches 45; Indels 39; Gaps 6;

Qy . 5 ALVLSCLLTFVLMRSLVTHRLLGGCGSGDQFSWNLFVSVPLPPLAGLIVQQIIFLGT 64  
Db 27 ALFISVLLVFIIVIVSLSLIEHGPGLG----FRLF----.GLLI-AIPFMAV 70

RESULT 8  
WMBEH6 UL36 protein - human herpesvirus 1 (strain 17)  
C;Species: human herpesvirus 1  
C;Date: 31-Dec-1989 #sequence\_revision 31-Dec-1989 #text\_change 09-Jul-2004  
C;Accession: I30085  
R;McGeoch, D.J.; Dalrymple, M.A.; Davison, A.J.; Dolan, A.; Frame, M.C.; McNab, D.; Per...  
J. Gen. Virol. 69, 1531-1574, 1988  
A;Title: The complete DNA sequence of the long unique region in the genome of herpes sim...  
A;Reference number: A30083; PMID:88274327; PMID:2839594  
A;Accession: I30085  
A;Status: nucleic acid sequence not shown; translation not shown  
A;Molecule type: DNA  
A;Residues: 1-3164 <MCGV>  
A;Cross-references: UNIPROT:P10220; GB:X14112; NID:g1944536; PIDN:CAA32311.1; PID:g59533  
C;Genetics:  
A;Gene: UL36  
C;Superfamily: varicella-zoster virus gene 22 protein

Query Match 5.3%; Score 89; DB 1; Length 3164;  
Best Local Similarity 36.9%; Pred. No. 51;  
Matches 24; Conservative 4; Mismatches 17; Indels 20; Gaps 3;

Qy . 247 NPQLQVFRKTALLGANGAOPCSSLPGSSPPSITTPAMOPAGPPDHXGXVEVCLHWEPXXGSA 306  
Db 2824 DPTAPV-----LGGRNPAAEPTTSSPAGPSSPPPAVQPVAPP-----PTSG-P 2863

Query Match 5.3%; Score 89.5; DB 2; Length 311  
Best Local Similarity 24.6%; Pred. No. 0.96;  
Matches 28; Conservative 21; Mismatches 34; Indels 31; Gaps 5;

Qy . 307 PPTWL 311  
Db 2864 PPTYL 2868

RESULT 9  
A65056 hypothetical protein in surE-cysC intergenic region - Escherichia coli (strain K-12)  
C;Species: Escherichia coli  
C;Date: 12-Sep-1997 #sequence\_revision 17-Sep-1997 #text\_change 09-Jul-2004  
C;Accession: A65056  
R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; C...  
A.; Rose, D.J.; Mau, B.; Shao, Y.  
Science 277, 1453-1462, 1997  
A;Title: The complete Genome sequence of Escherichia coli K-12.  
A;Reference number: A64720; PMID:97426617; PMID:9278503  
A;Accession: A65056  
A;Status: preliminary; nucleic acid sequence not shown; translation not shown  
A;Molecule type: DNA  
A;Residues: 1-107 <BLAT>  
A;Cross-references: UNIPROT:P46141; GB:AE000358; GB:U00096; NID:92367156; PIDN: AAC75791  
A;Experimental source: strain K-12, substrain MG1655  
C;Genetics:  
A;Gene: ygbE  
C;Superfamily: uncharacterized conserved protein YPO3363

Query Match 5.2%; Score 88.5; DB 2; Length 107;  
Best Local Similarity 24.6%; Pred. No. 1.2;  
Matches 28; Conservative 21; Mismatches 34; Indels 31; Gaps 5;

Qy . 33 DGQFSWNLFVSVPLPPLAGLIVQQIIFLGTALAFLVLMPPVLI-HGRNLFFRSLESSW 91  
Db 18 DEETTWS-----LPGAVV-----.GFISWLFAAMPMLIYGNSNTLFF--FIYTW 58

RESULT 10  
92 PFWLTLAVILQNMMAAHWWFLETHDGHPQLTNRRVLYANTFLLFPLNVLGAM 145  
59 PFPLALMPVAVVVGIALH----.SLMDGKLRYSIVFTLMTVGIMFGAL 101

AB1061	probable innner membrane protein STY4813 [Imported] - <i>Salmonella enterica</i> subsp. <i>enterica</i>
C;Species:	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhi
C;Note:	this species has also been called <i>Salmonella typhi</i>
C;Accession:	AB1061
C;Date:	09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002
C;R;Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar, S.; Moule, S.; O'Gaora, P.	
Nature 413, 848-852, 2001	
A;Authors:	Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Title: Complete genome sequence of a multiple drug resistant <i>Salmonella enterica</i> serovar Reference number: AB05052; MUID:21534947; PMID:11677608
A;Accession:	AB1061
A;Status: preliminary	
A;Molecule type: DNA	
A;Residues: 1-395 <PAR>	
A;Cross-references: GB:AL513382; PIDN:CAD06935.1; PID:g16505583; GSPDB:GN00176	
C;Genetics:	
C;Gene: STY4813	
Query Match Score 88.5; DB 2; Length 395;	
Best Local Similarity 26.2%; Pred. No. 5.2;	
Matches 37; Conservative 20; Mismatches 45; Indels 39; Gaps 6;	
Qy 5 ALVLSCLLTFLVLMRSLVLTGSGGSGDGFWSVNLFSVPLPPLAGLIVQQIIFFLGT 64	
Db 73 ALFISVLLVFIYIVSLSFIEHGHPGLG-----FTLF-----GLLI-AIIPFMAV 116	
Qy 65 TALAAFLVLMMPVLHGRNLLFERSLESSWPFWNLTLAVILQNMMAHWVFLETHDGHQPQLTN 124	
Db 117 KGLOYQAMMTSLSNGVHFGEQCSMRRAW-WYMFALPVLL--MVA----- 156	
Qy 125 RRVLYAATFLLFPLNVLVGAM 145	
Db 157 ---LYIVLYIISLVTIAVGGL 174	
RESULT 11	
I49199 growth factor receptor binding protein Grb10 - mouse	
C;Species: <i>Mus musculus</i> (house mouse)	
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 09-Jul-2004	
C;Accession: I49199	
R;Ooi, J.; Yajnik, V.; Immanuel, D.; Gordon, M.; Moskow, J.J.; Buchberg, A.M.; Margolis, Oncogene 10, 1621-1630, 1995	
A;Title: The cloning of Grb10 reveals a new family of SH2 domain proteins.	
A;Reference number: I49199; MUID:95249278; PMID:7731717	
A;Accession: I49199	
A;Status: preliminary; translated from GB/EMBL/DDBJ	
A;Molecule type: DNA	
A;Residues: 1-621 <RES>	
A;Cross-references: UNIPROT:Q60760; EMBL:U18996; NID:9841209; PIDN:AAB53687.1; PID:9841	
C;Genetics:	
A;Gene: Grb10	
C;Keywords: growth factor receptor F;520-614/Domain: SH2 homology <SH2B>	
Query Match Score 87; DB 2; Length 621;	
Best Local Similarity 21.7%; Pred. No. 12;	
Matches 38; Conservative 28; Mismatches 59; Indels 50; Gaps 8;	
Qy 172 EVSQSHPAMTAFCSSL-----LLQ-----AQSLLPRTMAAPQDSLRLPGEEDEG 213	
Db 4 DINSSVESLNNSACNMQSDDTAPLLEDQHASNQGAASSSRQOPQASPRQKMQRSQPVHI 63	
Qy 214 MQLLQTKDSMAGKARGPAXRGRARWGLAYTLLNPQLQVERKTTALLGANGAQPCCSSLPGS 273	
Db 64 LRRQEQEDQQLRTA-----SLPAIPNPFPPE-----LTGA-----APGS 96	
Qy 274 PPSITPAM----QPAGPP-DHXGKVVEVCLHWPXGSAP-PTWLWESQQGFWRKKL 323	
Db 97 PPSVAPPSI.PPPSOPPAKHCGRCXEWKPIGENTRNGKRKTIWBRWOPPGFFOLSKL 151	

Qy 6 LVLSCLLTFLVLMRSLVTHRIGSGGSGDGFWSNLFSVPLPPLAGLIVQQIIFFLGTT 65  
 Db 244 LALCCGLLVEATSRGYHRYARVGSGTPR----- RQTVYSMGTS 283  
 Qy 66 ALAFLVLMPPVLHGRNLLFERSLESSWPF---WLT---- LAL 99  
 Db 284 LTLLCLLPLL-----ITLISLGVPFTILMRWLSIGGIDIWLNPELLPAKQTGLAL 336  
 Qy 100 -AVILQNMMAAHWVFLETHDCSHPQLTNRVLYAATFLLFPLNVLGAMXXXCSPTAIRH 157  
 Db 337 SGAVITLCAIPMAWLSVR--YPGRLHR--AMEGYYVTSSLPGIVVALAVLTITIRI 390  
 Qy 158 PTPGYTYTNRFLKIEVSQSHPAMTAFCSSLQQAQSLLPRTMAAPQDSLRLPGEDEGMQLL 217  
 Db 391 ARPLY-----QTEFTVLLAYLLMFTPRALI---SLRAGIAAQAPVELE 429  
 Qy 218 QTKDSMAKG-----ARPGAXRGRARRGLAYTLLHNPTLQVERKTALLGANGAQ 265  
 Db 430 NVARSLGRTPTQAMLSSTTLLRUAAPGAAGAA--LVFLAISNE---LTATILLAPNGTR 482  
 Qy 266 PCSSLPGSPPSITPAMQPGPPDHXGVIEVCLHWEPXXGSAPPTLWESQ 315  
 Db 483 TLAT-GFWALTSEIDYVAAP--YAFLMVAL-----SLPLTWLLYSQ 521

RESULT 15  
 S4085 hypothetical protein 4 - Lactococcus lactis  
 C;Species: Lactococcus lactis  
 C;Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004  
 C;Accession: S40085  
 R;Eaton, T.J.; Shearman, C.; Gasson, M.  
 submitted to the EMBL Data Library, December 1993  
 A;Description: Cloning and sequence analysis of the DNAK gene region of Lactococcus lac-  
 tis  
 A;Reference number: S40082  
 A;Accession: S40085  
 A;Status: Preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-614 <EAT>  
 A;Cross-references: UNIPROT:P42377; EMBL:X76642; NID:g435489; PID:CAA54090.1; PID:g435

Query Match 5.1%; Score 86; DB 2; Length 614;  
 Best Local Similarity 19.9%; Pred. No. 14;  
 Matches 49; Conservative 35; Mismatches 74; Indels 88; Gaps 11;

Qy 5 ALVLSCLLTFLVLMRSLVTHRIGSGGSGDGFWSNLFSV-----PLPLPLLAGLIVQQI 58  
 Db 332 SLIFSCFSLVLVIMQLPI-----FPWKJESIFTIVQDPARFSTLFGLF--- 374

Qy 59 IFFLGLTTALAFLVLMMPVLHGRNLLFERSLESSWPFWLTLALAVILQNMMAAHWVPLETHDG 118  
 Db 375 -----SALSLLVLPIL-----LDKISGKTSYLYTIGLLVIFSIL-----G 410

Qy 119 HPQLTNR-----RVLYAA-----TFLLFPLLNVLVGAMXXXCSPTAIRHPTPGYY 163  
 Db 411 FAEFRNRIQKGSQPLFASAQSLLNKTFFNMYMENPDSSIAIGEYL----PQVIGSHNQPYEK 466

Qy 164 TYRNFLKIE--VSQSHPAMTAPCSLLLQAQSLLPRTMAAPQDSLRLPGEEDGMQLLQTKD 221  
 Db 467 TIOQFYKDKNVYGMRNQAMT-----YLSQRGKLPPEGLA----- 506

Qy 222 SMARGA 227  
 Db 507 YSKKGS 512

Search completed: February 8, 2005, 13:41:06  
 Job time : 34.1317 secs

RESULT 14  
 A87673 conserved hypothetical protein CC3419 [imported] - Caulobacter crescentus  
 C;Species: Caulobacter crescentus  
 C;Date: 20-Apr-2001 #sequence\_revision 20-Apr-2001 #text\_change 09-Jul-2004  
 C;Accession: A87673  
 R;Nierman, W.C.; Feldblum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.  
 R.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon-  
 n, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.  
 Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001  
 A;Title: Complete Genome Sequence of Caulobacter crescentus.  
 A;Reference number: A87249; MUID:21173698; PMID:11259647  
 A;Accession: A87673  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-582 <STO>  
 A;Cross-references: UNIPROT:Q9A2Y7; GB:AE005673; NID:g13425133; PID:AAK25381.1; GSPDB:Q  
 C;Genetics:  
 A;Gene: CC3419

Query Match 5.1%; Score 86; DB 2; Length 582;  
 Best Local Similarity 24.3%; Pred. No. 13;  
 Matches 74; Conservative 30; Mismatches 113; Indels 88; Gaps 14;

Qy 62 LGTTALAFLVLMMPVLHGRNLLFERSLESSWPFWLTLALAVILQNMMAAHWVFL--ETHDG 118  
 Db 220 VGLTLLGWLLPLMLIGGGFLATLPLFTGLAPLWGTRATAATLLISARAALILLINAAYQDG 279

Qy 119 H--PQLTNRRVLYAATFLLFPLNVLG-----AMXXXCSP 151  
 Db 280 EEEPPHJIPCLAARIAGLILLIPIVILAGYALWLRIDQYGLTPERYVAGVYLVVAIGFTAGY 339

Qy 152 SIAIRHPTPGYYTYRNFLKIEVSQSHPAMTAFCSLL-----QAQSL 194  
 Db 340 ALAAVKPGP-----WMK-PLERTNPIMAAACVLLLALETPIANPARLSVASQVKRLE 391

Qy 195 PRTMAAPQ-----DSLRGEDEGMMQLIQTKS --MAKGARPAGXRGRARWGLAYTL 244  
 Db 392 SGEVAADKFDFQFLRFDAQRGR--EALDRLKTHPNAEIAKRARDA-----ASTE 440

Qy 245 LHNPQLQV---FRKTALLGANGAQPC-----SLPGSPSPSITTPAMQ-PA-GPPDHXGX 292  
 Db 441 KQYPAGEIRPDKFAMAVYPAKGKALPQSFVAQDWSSQPSGSNCNTIAMQCPLAVDVADGK 500

Qy 293 VEVCU 297  
 Db 501 DEVLL 505

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 1 CRYSTALINUS SCUTELLARIA L. MBS  
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 Q6vru0 herichthys  
 Q8dm47 synechococc  
 Q75rx9 homo sapien  
 Q14524 homo sapien  
 Q14524 homo sapien  
 Q75ry0 homo sapien  
 Q71es2 betta hippo  
 Q9p3b4 neurospora  
 Q96s58 homo sapien  
 Q8izy2 homo sapien  
 Q9bzC4 homo sapien  
 Q9nr73 homo sapien  
 Q8m6z9 pfiesteria  
 Q71es3 betta pi c  
 TRI6 HUMAN  
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 35 93 5.5 1962 2  
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 37 93 5.5 2016 2  
 38 92.5 5.5 378 2  
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 43 92 5.4 2146 2  
 44 91.5 5.4 353 2  
 45 91.5 5.4 378 2

scoring table: BLOSUM62      ALIGNMENTS

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Number of annotations: 15

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DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)  
DE Hypothetical protein FLJ12541.  
OS Homo sapiens (Human).

Database : UniProt\_03 : \*  
 1. [uniprot](#) smotr  
 OC Eukaryota; Metazoa; Chordata; Crustacea; Insecta; Coleoptera; Curculionidae; Curculioninae;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 NCBITaxID=9606;  
 QX

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RA YAMAMOTO J., SAITO K., KAWAI Y., ISONO Y., NAKAMURA Y., NAGAHARI K., SUMMARIES

Result	Query
RA	Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Omura Y.
RA	Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Omura Y.
RA	Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Omura Y.
RA	Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Omura Y.

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2	1110.5	65.5	667	2	Q8tb21	homo sapien
2	1110.5	65.5	667	2	Q8tb21	homo sapien
2	1110.5	65.5	667	2	Q8tb21	homo sapien
2	1110.5	65.5	667	2	Q8tb21	homo sapien

4	1110.5	65.5	708	2	Q7Z3U9	55	07219	homo sapien
4	1110.5	65.5	708	2	Q7Z3U9	55	07219	homo sapien
4	1110.5	65.5	708	2	Q7Z3U9	55	07219	homo sapien
4	1110.5	65.5	708	2	Q7Z3U9	55	07219	homo sapien
4	1110.5	65.5	708	2	Q7Z3U9	55	07219	homo sapien

6	1022.5	60.3	286	2	071RB9	
6	1022.5	60.3	286	2	071RB9	
6	1022.5	60.3	286	2	071RB9	
6	1022.5	60.3	286	2	071RB9	
6	1022.5	60.3	286	2	071RB9	

12	115.5	6.8	6.8	QoFBv6	07NYTU4	Yamada K.,
13	100.5	6.9	6.9	QoFBv6	07NYTU4	Fujii Y.,
13	100.5	6.9	6.9	QoFBv6	07NYTU4	Ono T.,
12	115.5	6.8	6.8	QoFBv6	07NYTU4	Ozaki K.,
12	115.5	6.8	6.8	QoFBv6	07NYTU4	Fujii Y.,
12	115.5	6.8	6.8	QoFBv6	07NYTU4	Ohmori Y.,

RA	Togashi T.,	Oyama M.,	Hata H.,	Watanabe M.,	Komatsu T.,	
Qenzhō	homo sapien					
GCSB	HUMAN					
97.5	5.8	403	1			

Q7nrx1 chromobacter RA Okumura K., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nagase T., Sano S.

"Complete sequencing and characterization of 21,243 full-length human treponema p 083179

SQ	SEQUENCE	560 AA;	6198 / MW;	DUFFED/68/AED/4 CXXC64;
Q8NP08	corynebacte - - - - - - - - -			

	Matches	Conservative	4; Minimales	11.000	3.777	1.000
29	94.5	5.6	482	2	Q8M258	Pfiesteria
30	94.5	5.6	482	2	cover	occur homocanion
31	94.5	5.6	482	2	cover	occur homocanion
32	94.5	5.6	482	2	cover	occur homocanion





RESULT 6									
Q71RB9		PRELIMINARY;		PRT;		286 AA.			
ID	Q71RB9	AC	Q71RB9;	DT	05-JUL-2004 (TREMBLrel. 27, Created)	DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)	RA	Bouillet P.; Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.;
OC		DE	Hypothetical protein PP14296;	DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)	DR	MGD; MGI:107742; Stra6.	RT	"Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein.";
OS	Homo sapiens (Human).	GN	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	RN	[3]	RR	SEQUENCE FROM N.A.	RL	Medline=97346723; PubMed=9203140; DOI=10.1016/S0925-4773(97)00039-7; Bouillet P.; Sapin V., Chazaud C., Messaddeq N., Decimo D., Dolle P., Champon P.;
OC		OC		RN		RA	Submitted (APR-1998) to the EMBL/GenBank/DBBJ databases.	DR	
OC		OC		RN		DR	EMBL; AF062476; AAC16016.1; -.	DR	
OC		OC		RN		DR	MGD; MGI:107742; Stra6.	DR	
OC		OC		RN		DR	GO; GO:0016021; C:integral to membrane; TAS.	DR	
OC		OC		SQ	SEQUENCE 286 AA; 31877 MW;	RR	6ACE69F3EEE16A4F7 CRC64;	RR	
OC		OC		RR	SEQUENCE FROM N.A.	RR	SEQUENCE FROM N.A.	RR	
OC		OC		RR	Wan D.F., Qin W.X., Zhou X.M., Zhang P.P., Jiang H.Q., Zu J.R.; Submitted (APR-2001) to the EMBL/GenBank/DBBJ databases.	RR	Query Match	RR	
OC		OC		RR	EMBL; AF370419; AAQ15255.1; -.	RR	Best Local Similarity	RR	
OC		OC		RR	Hypothetical protein.	RR	28; Mismatches	RR	
OC		OC		RR	SEQUENCE 286 AA; 31877 MW;	RR	49.1%; Score 832.5; DB 2; Length 670;	RR	
OC		OC		RR	24E6A620844ASEFB CRC64;	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Query Match	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Best Local Similarity	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Matches 176; Conservative	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	1 CYISALVLSCLLTFLVLMPSLVTHR-----GQFSWNLILFS 42	RR	Score 832.5; DB 2; Length 670;	RR	
OC		OC		RR	366 CYISALVLSCASTFLLIRSLRTHANLQALHRRGAALDDPPQSIHPSRQATVSWMSFC 425	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Query Match	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Best Local Similarity	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Matches 176; Conservative	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	1 CYISALVLSCLLTFLVLMPSLVTHR-----GQFSWNLILFS 42	RR	Score 832.5; DB 2; Length 670;	RR	
OC		OC		RR	366 CYISALVLSCASTFLLIRSLRTHANLQALHRRGAALDDPPQSIHPSRQATVSWMSFC 425	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Query Match	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Best Local Similarity	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	Matches 176; Conservative	RR	57.7%; Pred. No. 8.1e-59;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR	Query Match	RR	1.4e-74;	RR	
OC		OC		RR	Best Local Similarity	RR	1.4e-74;	RR	
OC		OC		RR	Matches 214; Conservative	RR	1.4e-74;	RR	
OC		OC		RR	18 MRSVLVTHR----LGSGGGSD-----GQFSWNLFSVPLPLPLAGLIVQQII 59	RR	Score 1022.5; DB 2; Length 286;	RR	
OC		OC		RR	1 MRSVLVTHRNTNLRALHRRGAALDLSPHLRSPHPSRQAIIFCWMSFSAYQTAFCIGLLVQQII 60	RR	Pred. No. 1.4e-74;	RR	
OC		OC		RR					

RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Schmutz J.J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smailus D.E., Schein J.B., Jones S.J., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002). [2]	Query Match 7.8%; Score 133; DB 2; Length 322; Best Local Similarity 23.1%; Pred. No. 0.012; Mismatches 37; Conservative 37; Indels 54; Gaps 7; Matches 55; Conservative 37;
QY	50 LAGLIVQQIIFFLGTTALAFLVMPVLGRNLLFFRSLESSWPFWLTALAVI--ILQNM 106	50 LAGLIVQQIIFFLGTTALAFLVMPVLGRNLLFFRSLESSWPFWLTALAVI--ILQNM 106
DB	89 LWGYLIIVVQSLCGVMLMYGLVLPITHRGL--EMLOGFGLGVTLTSIVGLLIIQWV 145	89 LWGYLIIVVQSLCGVMLMYGLVLPITHRGL--EMLOGFGLGVTLTSIVGLLIIQWV 145
QY	107 AAHWVFLFEDHGPQ-----LTNRRVLYAATFLLEPLNVLVGAMXXXCSPSIAI---- 155	107 AAHWVFLFEDHGPQ-----LTNRRVLYAATFLLEPLNVLVGAMXXXCSPSIAI---- 155
DB	146 TAGTFFLQPQLGTSDKQKPLALNNRAFPINPNYFLFFYNVLLG--LGACLRLISCLLG 203	146 TAGTFFLQPQLGTSDKQKPLALNNRAFPINPNYFLFFYNVLLG--LGACLRLISCLLG 203
QY	156 -----RHPTPGYYTYRNFLKIEVSOSHAPMTAFCSLLQQQSLLPRTMA 199	156 -----RHPTPGYYTYRNFLKIEVSOSHAPMTAFCSLLQQQSLLPRTMA 199
DB	204 TWLARIIDRTIMQSGYEGADMFGAWICMLFVDHYHTNPVLVSFCHLITS----- 254	204 TWLARIIDRTIMQSGYEGADMFGAWICMLFVDHYHTNPVLVSFCHLITS----- 254
QY	200 APQDSLRLPGEDEGQMQLQTQDSMAKGARGPG-AXRGRARWGLAYTLLHNPLQVERKT 256	200 APQDSLRLPGEDEGQMQLQTQDSMAKGARGPG-AXRGRARWGLAYTLLHNPLQVERKT 256
DB	255 -----HKDRKLQKTVKYWCLNQSAIGPRFSARARTRWFLLQTLLINNPRLYMLRKS 303	255 -----HKDRKLQKTVKYWCLNQSAIGPRFSARARTRWFLLQTLLINNPRLYMLRKS 303
<b>RESULT 10</b>		
QY	1 CYISALVLSCLTFLVLMRSSLVTHR----LGSGGGD-----GQFSWNLF 42	1 CYISALVLSCLTFLVLMRSSLVTHR----LGSGGGD-----GQFSWNLF 42
DB	366 CYISALVLSCASTFLLIRSRLTHRANLQALHRGAAALDDPPQLQSITHPSRQAIYSWMSFC 425	366 CYISALVLSCASTFLLIRSRLTHRANLQALHRGAAALDDPPQLQSITHPSRQAIYSWMSFC 425
QY	43 VPLPLPLLAGLIVQQIIFFLGTTALAFLVMPVLGRNLLFFRSLESSWPFWLTALAVI 102	43 VPLPLPLLAGLIVQQIIFFLGTTALAFLVMPVLGRNLLFFRSLESSWPFWLTALAVI 102
DB	426 AYQTAFSCLGILYQQVIVFLGTTSLAFLVFPVLHGRNLLLRSLESTWPFWLTALAVI 485	426 AYQTAFSCLGILYQQVIVFLGTTSLAFLVFPVLHGRNLLLRSLESTWPFWLTALAVI 485
QY	103 LQNMAAHWVFLFEDHGPQLTNRRVLYAATFLLEPLNVLVGAMXXXCSPSIAIRHPT-- 159	103 LQNMAAHWVFLFEDHGPQLTNRRVLYAATFLLEPLNVLVGAMXXXCSPSIAIRHPT-- 159
DB	486 LQNIANWIFLRTHGYPELTNRRLMVCATFLFPINMLVGAIMAVWRVLSSLYNTVHL 545	486 LQNIANWIFLRTHGYPELTNRRLMVCATFLFPINMLVGAIMAVWRVLSSLYNTVHL 545
QY	160 -----PGYYTYRNFLKIEVSOSHAPMTAFCSLLQQQSLLPRTMAAPOD 203	160 -----PGYYTYRNFLKIEVSOSHAPMTAFCSLLQQQSLLPRTMAAPOD 203
DB	546 GQMDLSSLIPORAASLDPGYHTYQNFLRIEASQSHPGVIAFCALLIHAPSPQPRPLAQD 605	546 GQMDLSSLIPORAASLDPGYHTYQNFLRIEASQSHPGVIAFCALLIHAPSPQPRPLAQD 605
QY	204 SLRPGEEDEGMQLQTQDSMAKGARGPGAXRGRARWGLAYTLLHNPLQFRKTALLG--A 261	204 SLRPGEEDEGMQLQTQDSMAKGARGPGAXRGRARWGLAYTLLHNPLQFRKTALLG--A 261
DB	606 SLRPAEEEGMQLLQTFKDLMAKGAGHKGSOSRARWGLAYTLLHNPSLQAFRKAALTSAKA 665	606 SLRPAEEEGMQLLQTFKDLMAKGAGHKGSOSRARWGLAYTLLHNPSLQAFRKAALTSAKA 665
QY	262 NGAQP 266	262 NGAQP 266
DB	666 NGTQP 670	666 NGTQP 670
<b>RESULT 9</b>		
Q69ZH3	Q69ZH3 PRELIMINARY; PRT; 322 AA.	Q69ZH3 PRELIMINARY; PRT; 322 AA.
ID	Q69ZH3; 25-OCT-2004 (TREMBL) 1. 28, Created)	ID Q69ZH3; 25-OCT-2004 (TREMBL) 1. 28, Created)
AC	DT 25-OCT-2004 (TREMBL) 1. 28, Last sequence update)	AC DT 25-OCT-2004 (TREMBL) 1. 28, Last sequence update)
DT	DT 25-OCT-2004 (TREMBL) 1. 28, Last annotation update)	DT 25-OCT-2004 (TREMBL) 1. 28, Last annotation update)
DE	DE MKIAA1529 Protein (Fragment).	DE MKIAA1529 Protein (Fragment).
GN	GN Name=mKIAA1529;	GN Name=mKIAA1529;
OS	OS Mus musculus (Mouse).	OS Mus musculus (Mouse).
OC	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX	OX NCBI_TaxID=10090;	OX NCBI_TaxID=10090;
RN	RN SEQUENCE FROM N.A.	RN SEQUENCE FROM N.A.
RP	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RC	RC RIKEN FANTOM Consortium; Carninci P.; Hayashizaki Y.; RT "Functional annotation of a full-length mouse transcriptome based on functional annotation of the mouse transcriptome based on functional annotation of a full-length mouse CDNA collection.";	RC RIKEN FANTOM Consortium; Carninci P.; Hayashizaki Y.; RT "Functional annotation of a full-length mouse transcriptome based on functional annotation of the mouse transcriptome based on functional annotation of a full-length mouse CDNA collection.";
RA	RA Nature 409:685-690 (2001).	RA Nature 409:685-690 (2001).
RN	RN SEQUENCE FROM N.A.	RN SEQUENCE FROM N.A.
RP	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RC	RC Carninci P.; Shibata Y.; Sugahara Y.; Shibata K., Itoh M., Konno H.; Okazaki Y.; Muramatsu M.; Hayashizaki Y.; RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";	RC Carninci P.; Shibata Y.; Sugahara Y.; Shibata K., Itoh M., Konno H.; Okazaki Y.; Muramatsu M.; Hayashizaki Y.; RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";
RA	RA Genome Res. 10:1617-1630 (2000).	RA Genome Res. 10:1617-1630 (2000).
[5]	[5] SEQUENCE FROM N.A.	[5] SEQUENCE FROM N.A.
RP	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;	RP STRAIN=C57BL/6J; TISSUE=Liver; MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RC	RC Shibata K., Itoh M., Aizawa K., Nagaoka S., Carninci P.,	RC Shibata K., Itoh M., Aizawa K., Nagaoka S., Carninci P.,
RA	RA	RA
NON TER	NON TER	NON TER
SEQUENCE	SEQUENCE 322 AA; 1	SEQUENCE 322 AA; 1
CRC64;	CRC64;	CRC64;



SQ	SEQUENCE	621 AA;	71002 MW;	909E1C6BC2A9EA60 CRC64;	QY	120 PQLTNRRVLYAAFFPLNVLVGAMXXXCSPSI-AIRHPTPG--YYTYRNPF-----168	
	Query Match	7.8%;	Score 133;	DB 2;	Length 621;	Db	328 ----PRPLRRATWLIALGML-GAYSYYLAVSVPA
	Best Local Similarity	23.1%;	Pred. No. 0.025;				-RNFAGWRKDLEAR 380
	Matches 55;	Conservative 37;	Mismatches 92;	Indels 54;	Gaps 7;		
QY	50 LAGLIVQQIIFFGLITTAFLAFYLMPVLIHGGRNLLEFFRSLESSWPFWLTALAV--ILQNM 106	QY	169 -LKIEVSQSHPAMTAFCSSLQASLLPRTMAAPQDSDLRPGE-----DEGMQLLQT--219				
Db	388 LWGYLIIHVQSLCGVLMGYLVLPITIHRGL---EMLOGFGLGVLTLSIVVGLILQW 444	Db	381 AVKTRELAQLPPG-----TRVLA---ENFKVGAELGFQLHDAQIEVLQADL 422				
QY	107 AAHWVFLETHDGHPO-----LTNRRLVLYAAFFPLNVLVGAMXXXCSPSIAI-----155	QY	220 KDSMAKGARPGXGRARWGL-----AYTLLHNPTLQVERK-----TALLGA--261				
Db	445 IAGTFLQPKLGTSQDKPLAUNNRRAFFNFNFYFLFYNVNLG--LGACLSRLISCLLG 502	Db	423 NDKHGRSAQ-----LAQWGLLSHGERSGPRLLVLSPSDQRYRDLTRYHAICAMVGPLP 476				
QY	156 -----RHPTPGYTYTNRNFLKIEVSQSHPAMTAFCSSLQASLLPRTMA 199	QY	262 -----NGAQ-----PCSSLPGSPSPSITPAM-----281				
Db	503 TWLIARIIDRTIMOSGYECADMGFGAWIGMLFVDHYHTNPVPLVSFHILITS-----553	Db	477 PPKVVSTDGHGQRFLLFALPAQRQPG--PCIAPAMAWIDTPLPGVAATTMQRGWAKD 534				
QY	200 APQDSLRPGEEDECMQLLQTQDKSMAKGARP-GAXRGARWGLAYTLLHNPTLQVERKT 256	QY	282 -----QPGAPPDHGXVBCLHWE 300				
Db	554 -----HKDRKLQKTVKTVWCLNQSAQGPFRSARARTRWFLLQTLINNPRLYMLRKS 602	Db	535 GVGLSRVELLVDGTPAGRADYGATLDVTPYWK 566				
RESULT 13							
Q8PBV8	PRELIMINARY;	PRT;	618 AA.	Q7NYU4	PRELIMINARY;	PRT;	
ID	Q8PBV8	AC	Q8PBV8	ID	Q7NYU4	AA.	
AC	Q8PBV8	DT	01-OCT-2002 (TREMBLrel. 22, Created)	AC	Q7NYU4;		
DT	01-OCT-2002 (TREMBLrel. 22, Last sequence update)	DT	01-MAR-2004 (TREMBLrel. 26, Last sequence update)	DT	01-MAR-2004 (TREMBLrel. 26, Last annotation update)		
DT	01-OCT-2002 (TREMBLrel. 22, Last annotation update)	DE	Probable periplasmic binding protein.	DT	01-MAR-2004 (TREMBLrel. 26, Last annotation update)		
DE	Hypothetical protein XCC1009.	GN	OrderedLocusNames=CV1178;	DE	GN		
GN	Xanthomonas campestris (pv. campestris).	OS	Chromobacterium violaceum.	OS	OS		
OS	Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;	OC	Bacteria; Proteobacteria; Neisseriales;	OC	OC		
OC	Xanthomonadaceae; Xanthomonas.	NCBI_TaxID	NCBI_TaxID=536;	NCBI_TaxID	NCBI_TaxID=536;		
OX	[1]	RN	SEQUENCE FROM N.A.	RN	SEQUENCE FROM N.A.		
RN	RP	RP	SEQUENCE FROM N.A.	RP	SEQUENCE FROM N.A.		
RC	STRAIN=ATCC 33913 / NCPPB 528;	RC	STRAIN=ATCC 33913 / NCPPB 528;	RC	STRAIN=ATCC 12472 / DSM 30191;		
RC	MEDLINE=22022145; PubMed=12024217; DOI=10.1038/417459a;	RC	MEDLINE=22882880; PubMed=14500782; DOI=10.1073/pnas.1832124100;	RX	RX		
RX	da Silva A.C.R., Ferri J.A., Reinach F.C., Farah C.S., Furlan L.R.,	RA	de Almeida D.F., Hungria M., Guimaraes C.T.,	RA	Vasconcelos A.T.R., de Almeida F.C., Hungria M., Guimaraes C.T.,		
RA	Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,	RA	Antonio R.V., Almeida F.C., de Almeida L.G.P., de Almeida R.,	RA	Antonio R.V., Almeida F.C., de Almeida L.G.P., de Almeida R.,		
RA	Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A.,	RA	Alves-Gomes J.A., Andrade E.M., Araujo M.F.P.,	RA	Alves-Gomes J.A., Andrade E.M., Araujo M.F.P.,		
RA	Camarotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,	RA	Astolfi-Filho S., Azevedo V., Baptista A.J., Batatas L.A.M.,	RA	Astolfi-Filho S., Azevedo V., Baptista A.J., Batatas L.A.M.,		
RA	Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,	RA	Batista J.S., Belo A., van den Berg C., Bogo M., Bonatto S.,	RA	Batista J.S., Belo A., van den Berg C., Bogo M., Bonatto S.,		
RA	Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,	RA	Bordignon J., Brígido M.M., Brito C.A., Brocchi M., Buriti H.A.,	RA	Bordignon J., Brígido M.M., Brito C.A., Brocchi M., Buriti H.A.,		
RA	Formighieri E.F., Franco M.C., Gregorio C.C., Gruber A.,	RA	Camargo A.A., Cardoso D.D.P., Carneiro N.P., Carrasco D.M.,	RA	Camargo A.A., Cardoso D.D.P., Carneiro N.P., Carrasco D.M.,		
RA	Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,	RA	Carvalho C.M.B., Cascardo J.C.M., Cavada B.S., Chueire L.M.O.,	RA	Carvalho C.M.B., Cascardo J.C.M., Cavada B.S., Chueire L.M.O.,		
RA	Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,	RA	Creczynski-Pasa T.B., Cunha-Junior N.C., Fagundes N., Falcao C.L.,	RA	Creczynski-Pasa T.B., Cunha-Junior N.C., Fagundes N., Falcao C.L.,		
RA	Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,	RA	Fantinatti F., Farias I.P., Felipe M.S.S., Ferrari L.P., Ferro J.A.,	RA	Fantinatti F., Farias I.P., Felipe M.S.S., Ferrari L.P., Ferro J.A.,		
RA	Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,	RA	Ferro M.I.T., Franco G.R., Freitas N.S.A., Furlan L.R.,	RA	Ferro M.I.T., Franco G.R., Freitas N.S.A., Furlan L.R.,		
RA	Pereira H.A., Rossi A., Sena J.A.D., Souza R.F., Teixeira E.C.,	RA	Gazzinelli R.T., Gomes E.A., Goncalves P.R., Grangeiro T.B.,	RA	Gazzinelli R.T., Gomes E.A., Goncalves P.R., Grangeiro T.B.,		
RA	Spinola L.A.F., Takita M.A., Tamura R.E., Tezza R.I.D.,	RA	Grattapaglia D., Grisard E.C., Jardim S.N., Laurino J.,	RA	Grattapaglia D., Grisard E.C., Jardim S.N., Laurino J.,		
RA	Trindade dos Santos M., Truffi D., Tsai S.M., White F.F.,	RA	Lei L.C.T., Lima L.F.A., Loureiro M.F., Lyra M.C.C.P.,	RA	Lei L.C.T., Lima L.F.A., Loureiro M.F., Lyra M.C.C.P.,		
RA	Setubal J.C., Kitajima J.P.,	RA	Madeira H.M.F., Manfio G.P., Maranhao A.Q., Martins W.S.,	RA	Madeira H.M.F., Manfio G.P., Maranhao A.Q., Martins W.S.,		
RA	"Comparison of the genomes of two Xanthomonas pathogens with differing	RA	di Mauro S.M.Z., de Medeiros S.R.B., Meissner R.V., Moreira M.A.M.,	RA	di Mauro S.M.Z., de Medeiros S.R.B., Meissner R.V., Moreira M.A.M.,		
RT	host specificities."	RA	Nascimento F.P., Nicolas M.P., Oliveira J.G., Oliveira S.C., Oliveira S.C., Pereira J.A., Pedrosa F.O., Pena S.D.J., Pereira J.O.,	RA	Nascimento F.P., Nicolas M.P., Oliveira J.G., Oliveira S.C., Pereira J.A., Pedrosa F.O., Pena S.D.J., Pereira J.O.,		
RT	Nature 417:459-463 (2002).	RA	Pereira M., Pinto L.S.R.C., Pinto L.S., Porto J.I.R., Potrich D.P.,	RA	Pereira M., Pinto L.S.R.C., Pinto L.S., Porto J.I.R., Potrich D.P.,		
RL	EMBL; AE012197; AAM40309.1; -.	RA	Ramalho-Neto C.E., Reis A.M.M., Rigo L.U., Rondinelli E.,	RA	Ramalho-Neto C.E., Reis A.M.M., Rigo L.U., Rondinelli E.,		
DR	Complete proteome.	RA	Santos E.B.P., Santos F.R., Schneider M.P.C., Seuanez H.N.,	RA	Santos E.B.P., Santos F.R., Schneider M.P.C., Seuanez H.N.,		
KW	SEQUENCE 618 AA;	RA	Silva A.M.R., da Silva A.L.C., Silva D.W., Silva R., Simoes I.C.,	RA	Silva A.M.R., da Silva A.L.C., Silva D.W., Silva R., Simoes I.C.,		
SQ	67854 MW;	RA	Simon D., Soares C.M.A., Soares R.B.A., Souza E.M., Souza K.R.L.,	RA	Simon D., Soares C.M.A., Soares R.B.A., Souza E.M., Souza K.R.L.,		
Query Match	6.8%; Score 115.5; DB 2; Length 618;	RA	Souza R.C., Steffens M.B.R., Steindel M., Teixeira S.R., Urmenyi T.,	RA	Souza R.C., Steffens M.B.R., Steindel M., Teixeira S.R., Urmenyi T.,		
Best Local Similarity	23.0%; Pred. No. 0.66;	RA	Vettore A., Wassem R., Zaha A., Simpson A.J.G.;	RA	Vettore A., Wassem R., Zaha A., Simpson A.J.G.;		
Matches 90;	Conservative 40; Mismatches 97; Indels 165; Gaps 22;	RT	"The complete genome sequence of Chromobacterium violaceum reveals remarkable and exploitable bacterial adaptability."	RT	"The complete genome sequence of Chromobacterium violaceum reveals remarkable and exploitable bacterial adaptability."		
3 ISALVLSCLLTFVLMRSVLTHRLGGGGDGQFSWNLFSVPLPLLAGLVLQOIFFL	62	CC	RT	RT	RT		
63 GTTAIAFLAFVYMPVHLGRNLLFFRSLES--SWPFWLTLAVALVQNMAAHWWFLETHDGH	119	CC	RL	CC	CC		
246 IQRALVTPLLAWMVKVSLAGTRAGSGGS--RAQWRYF-----GLLG-----285	327	CC	DR	DR	DR		
286 GISTRAIFVLG-	327	CC	GO; GO:0005215; F:transporter activity; IEA.	GO; GO:0006810; P:transport; IEA.	GO; GO:0006810; P:transport; IEA.		
InterPro; IPR002345; Lipocalin.		DR	InterPro; IPR002345; Lipocalin.	DR	DR		

DR	InterPro; IPR000914; SBP_bac_5.	Db	1559 vdVLVSiCvVFAMSfVPASFTLIEERTRAKHILQLVSGLPOTLYWLGNFLWDMCNY--
DR	InterPro; IPR009058; Wing_hlx_DNA_bnd.	QY	46 PLPPLAGLIVQQIF-----FLGTTAIALFVLMVPLHGRNLL-----FERSLESSW 91
DR	PFam; PF00496; SBP_bac_5_1.	Db	1617 ---LVAVCIVVLLIFQQRAYVAPENILPALLLILLYGSITPLMYPASFFFSVPSTA 1672
PROSITE; PS00213; LIPOCALIN; UNKNOWN_1.	Complete proteome; Sequence 572 AA;	QY	92 PWFLT-LALAVILQNMMAAHWYFLETHDGHIPQLTNRRVLYAATFLLFPLNLV-VGAMXXXC 149
KW	Best Local Similarity 23.7%; Pred. No. 9.8;	Db	1673 YVVLTCINLFIGINSSMATFVLELLSDONLQEVS--ILKQVFLIFPHFCLGRGLIDMVR 1730
SEQUENCE	Mismatches 26; Indels 101; Gaps 14;	QY	150 SPSIAIRHPTPGYYTYRNFLKIE-VSQSHSPAMTA-----FCSSLQAOQS-LLPRTMAAP 201
QY	17 LMRSIVTHRLGSGSGDGQFSWNLFSVPLPLPLA-----GLLVQOIIFFLGT 65	Db	1731 NQAMADAERLGDKQFSPLRWDLIGKNILLAMVAQGPLFLILLQHNRNRLPQ----P 1786
122 LLASLPQH-LGAGDSG-----RSLRIPHPAPLTLDQRYNARLESHLVROQFDRLCRH 174	QY	202 QDSLRP--GEEDEGMQLLQTKDSMARGARP-----AXGRARWGLAYTLILHNPT 249	
Db	175 DRLGQVLRPALAHWEADPEGRN-----WRFWLRPG-----LRFHD 210	Db	1787 KSRLLPPGLEEDE--DVTRERERTVKGATQGDVILVRLDLTKVYRGQRSPAVDHLCLGIPP 1844
QY	66 ALAFLVMPVL-----HGRNLLEFRSLESSWPFWLTALAVILQNMMAAHWVLETHD 117	QY	250 LQVFRKTALLGANGAQCFS-----SLPGSPSPSITPAMQPAGPP 287
QY	118 GHPQLTNRRVLYAATFLLFPLNLVQSPSIAIRHPTPGYYT-YRNFLKIEVSQS 176	Db	1845 GECF--GLLGVNGAGKTSPTFRMVTFGDTLPSSEAVLAGHNVAAQEP 1887
Db	171 GGP-----LDAET-----AAASLRLKQPDNPYHALYAHLLRRVDV---245	RESULT 15	
QY	177 HPAMTAFCSSLQQAQSLLPRTMAAPQDSIURPGEEDEGMQLLQTKDSMAKGARPAGXRGRA 236	ID	Q9ER60 PRELIMINARY; PRT; 1841 AA.
Db	246 HDALSFSCR-LTEADHLPWPQRLATANASIVP-----MRRSQDFPERMPVGSGPFRVE---295	AC	Q9ER60; AC
QY	237 RWGLAYTLLHNPTL-----QVERKTALL 259	DT	01-MAR-2001 (TREMBLrel. 16, Created)
Db	296 -----LHSQPQRLLKLAFAEPOHYRERAIL 317	DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
Db	-----NCBI_TaxID=10090; Name=ABCA7; OS=Rattus norvegicus (Rat); OC=Eukaryota; Mammalia; Eutheria; Rodentia; GN=ABCA7; RN=1; CC=1; DE=ATP-binding cassette transporter sub-family A member 7.	DT	01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DR	SEQUENCE FROM N.A. STRAIN=Wister; TISSUE=Platelet; RC=Q7TNJ2; AC=Q7TNJ2; DT=01-OCT-2003 (TREMBLrel. 25, Created) DT=01-MAR-2004 (TREMBLrel. 26, Last sequence update) DT=01-MAR-2004 (TREMBLrel. 26, Last annotation update) DE=ATP-binding cassette transporter sub-family A member 7.	OX	NCBI_TaxID=10090; [1]
DR	Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.	RN	SEQUENCE FROM N.A.
DR	-!- SIMILARITY: Belongs to the ABC transporter family.	RC	STRAIN=balb/c; TISSUE=Heart; MEDLINE=21823196; PubMed=11834499;
DR	Rattus norvegicus (Rat). Craniata; Vertebrata; Euteleostomi; OC=Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI_TaxID=10116; [1]	AC	Zimmer T., Bendorf K.; "The mouse heart sodium channel (mH1): cloning and characterization of alternatively spliced variants." Am. J. Physiol. Heart Circ. Physiol. 282:H1007-H1017(2002).
DR	SEQUENCE FROM N.A. STRAIN=Wister; TISSUE=Platelet; RC=Sasaki M., Nada S., Yamaguchi A.; Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.	DT	CC=-!- SUBCELLULAR LOCATION: Integral membrane protein (By similarity).
DR	CC=1; DE=ATP-binding cassette transporter sub-family A member 7.	DT	CC=-!- SIMILARITY: Belongs to the sodium channel family.
DR	GO; GO:0016021; C:integral to membrane; TAS. DR	DT	EMBL; AJ278787; CAC17146.1; -.
DR	GO; GO:0005524; F:ATP binding; IEA. DR	DR	HSSP; P04775; 1BYY.
DR	DR	DR	MGI; MGI:98250; Scn4a.
DR	DR	DR	GO; GO:0016021; Cat_channel_TrpL.
DR	DR	DR	InterPro; IPR001682; Ca/Na_pore.
DR	DR	DR	InterPro; IPR002111; Cat_channel.
DR	DR	DR	InterPro; IPR005821; Ion_trans.
DR	DR	DR	InterPro; IPR000048; IO_region.
DR	DR	DR	InterPro; IPR001696; Na_channel.
DR	DR	DR	InterPro; IPR010852; Na_channel4.
DR	DR	DR	InterPro; IPR010526; Na_trans_assoc.
DR	DR	DR	Pfam; PF00520; Ion_trans; 4.
DR	DR	DR	Pfam; PF00612; IO; 1.
DR	DR	DR	Pfam; PF06512; Na_trans_assoc; 1.
DR	DR	DR	PRINTS; PR001170; NACHANNEL.
DR	DR	DR	PRINTS; PR01665; NACHANNEL4.
DR	DR	DR	SMART; SM00015; IQ; 1.
DR	DR	DR	PROSITE; PS55096; IQ; 1.
DR	DR	DR	Ion transport; Ionic channel; Sodium channel; Sodium transport; Transmembrane; Transport; Voltage-gated channel.
DR	DR	DR	SEQUENCE 1841 AA; 208796 MW; 0766DFD33A9E0E55 CRC64;
DR	DR	DR	Query Match 5.8%; Score 98.5%; DB 2; Length 1841; Best Local Similarity 22.0%; Pred. No. 51; Mismatches 35; Mismatches 105; Indels 97; Gaps 14;
DR	DR	DR	3 ISALVLSCL---LTF-----LVLMRSLVTH---RLGSGGGSD----GQFSWNLFVPL 45
DR	DR	DR	Matches 67; Conservative 82; Conservative 62; Mismatches 124; Indels 78; Gaps 19;
DR	DR	DR	Query Match 5.9%; Score 100%; DB 2; Length 2170; Best Local Similarity 23.7%; Pred. No. 46; Mismatches 105; Indels 97; Gaps 14;

Qy 35 QFSWNLFPSVPLPPLAGLIVQQ1IFFGTTAFLAFLVLMFVLHGRNLLFRLESSWPFW 94  
Db 633 QQGWNIFD-----SFIVTSLVELG---LANVOGLSVLRSFRLLRVFKLAKSWP-T 679

Qy 95 LTLLALAVILQNMAAHWVFELETHDGHPOLTNRRLVLYATFLLFPL--NVLVGAMXXXCSPS 152  
Db 680 LNMLIKIIGNSVGA-----LGNLTLVLLAIVFIAVVGMLFGKSYKECVCK 726

Qy 153 IAIIRHPTPGYIT--YRNFLKI-----EVSQSHPAMTAFCSSLQAOQ-- 191  
Db 727 IASDCSSLPRWHMHDFFHSFLLVFRILCGIEWIETMWDCMEVAQQAMCLTVFLMVNVIGNLV 786

Qy 192 -----SLLPRTMAAPQDSLRPGEEDEGMQLQTAKDSMAKGARGAXRGRARWGLAYT-- 243  
Db 787 VLNLFALLSSFSA--DSLAAASDEDGEENNLLQ-----IAIGRIKWGIAFAKT 832

Qy 244 -----LHNPTLQVFRKTALL-----GANGAQPCSSLPGSPSSITPAMQPAGPPDHXG 291  
Db 833 FLLGLLHGKILSL--KDIMLSLGEPGGAENGESP-----PEDEKKKEPPPEDG 878

Qy 292 XVEV 295  
Db 879 NKEL 882

Search completed: February 8, 2005, 13:40:10  
Job time : 145.653 secs

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